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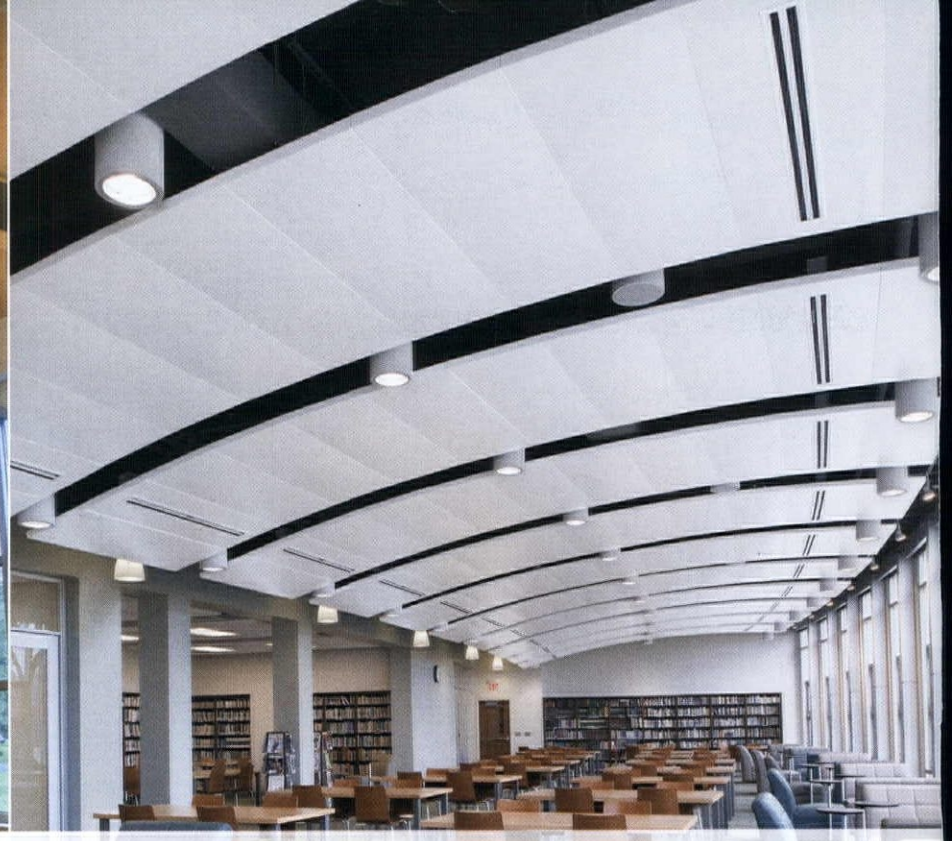
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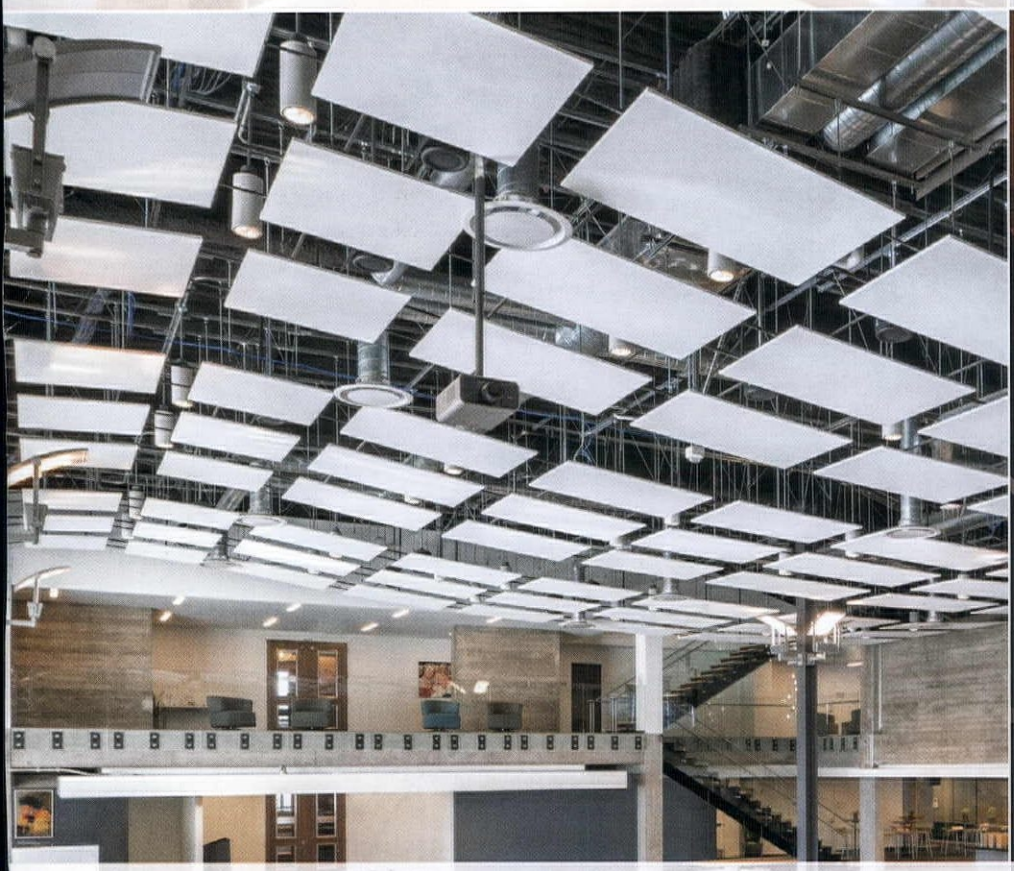
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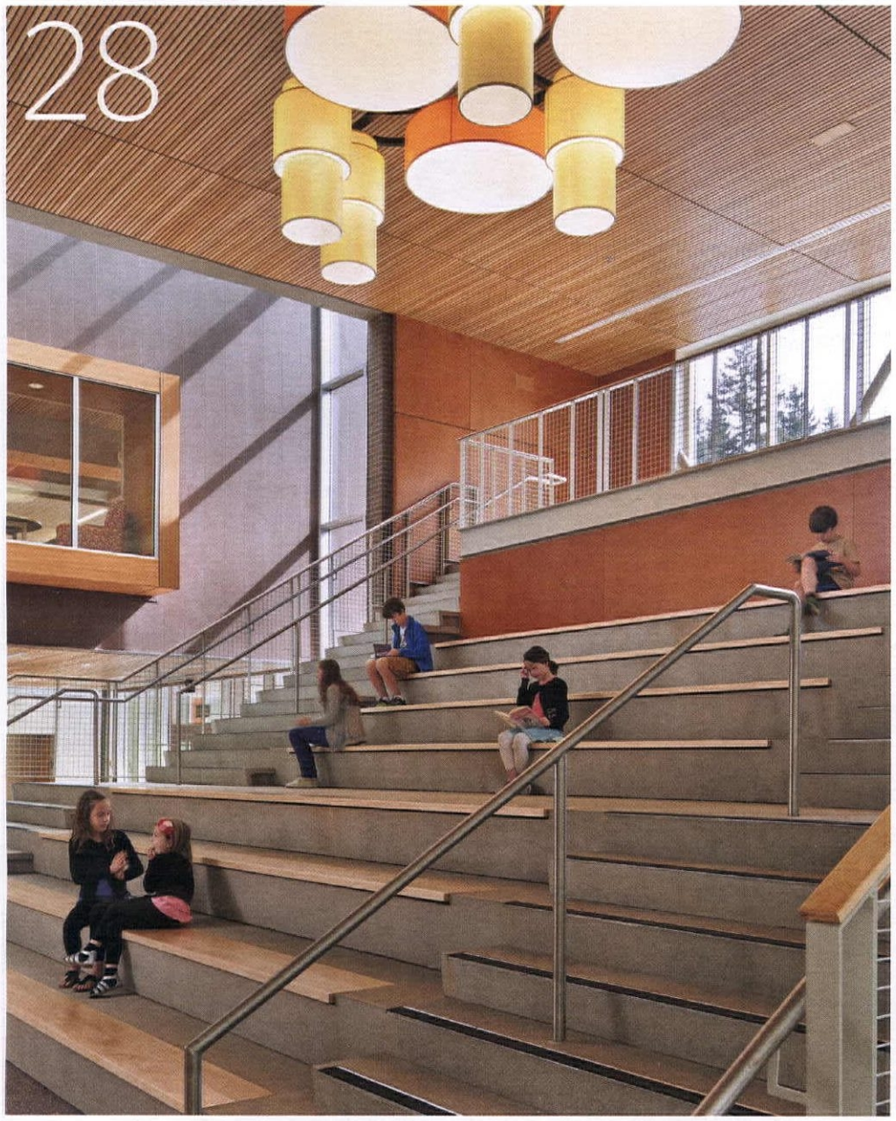
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SEPTEMBER/OCTOBER 2015



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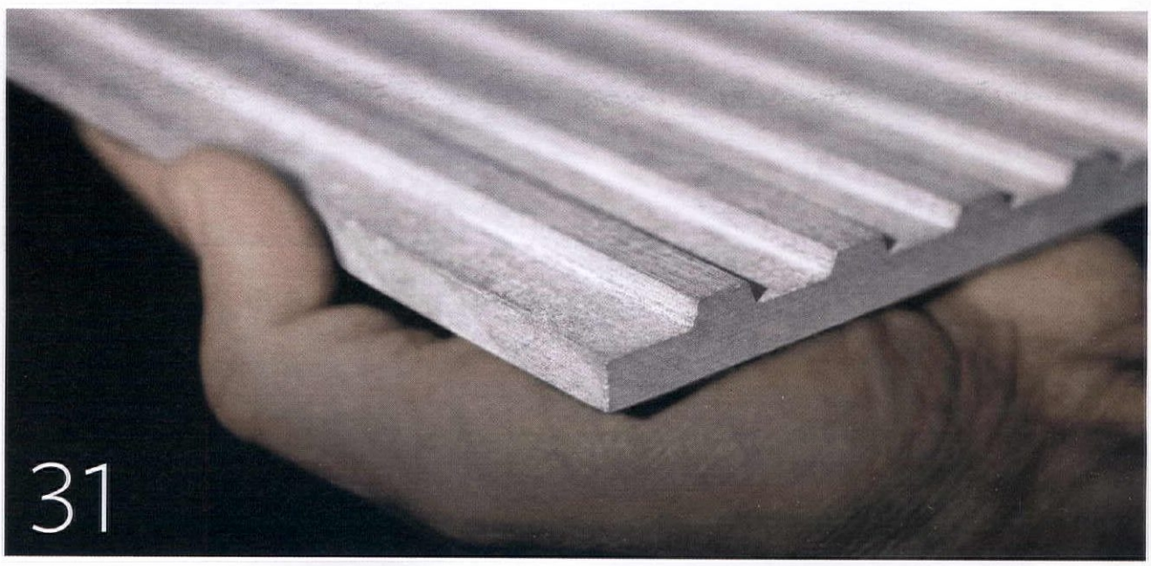
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Welcome change



WITH ITS COLDER temperatures and shorter days, fall brings about endings. But it is also a time of beginnings.

Nowhere is that spirit of renewal more alive than at schools and in classrooms. In this issue of *SNAP*, we highlight projects and products that boost learning in a myriad of ways. Our feature story focuses on a trio of additions to K–12 schools, examining how a facility's architecture can support different educational approaches. Our Case Study mines a similar vein but also shows how furnishings can provide opportunities for health and exercise.

Because educational design is taking cues from open-plan office design, we've included a roundup of NeoCon's best offerings. Two of our Product Specs—on Acoustics and Safety & Security—further speak to key concerns in both.

On a personal note, this issue is a beginning for me, too, as it's my first as *SNAP*'s editor. Here, as well as in *Architectural Record*, I will be expanding coverage of materials, processes, and technologies. I'm also interested in the lifecycle and supply-chain side of products, for although our industry has made strides in its eco-friendliness, we could do better every step of the way.

All my best,

Julie Taraska

JULIE TARASKA *Editor*

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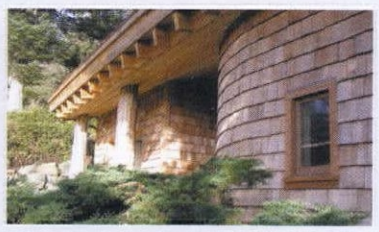
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Labor Shortage Solution — Specifying a Factory-Made Roofing Membrane

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Mastering FSC-Certified Wood in Green Building

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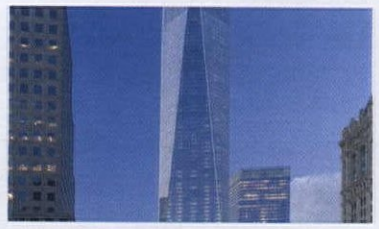
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Ceramic Tile: Solutions for Holistic Sustainability

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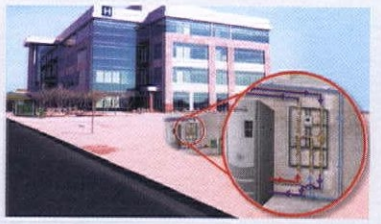
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The Impact of Wood Use on North American Forests

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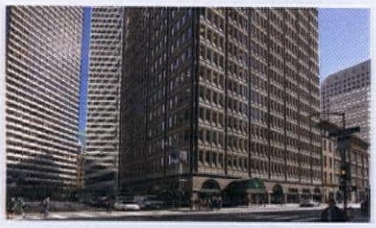
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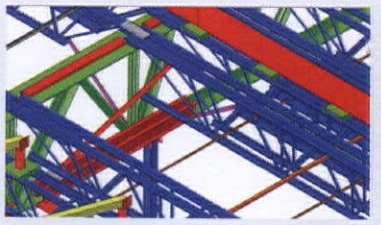
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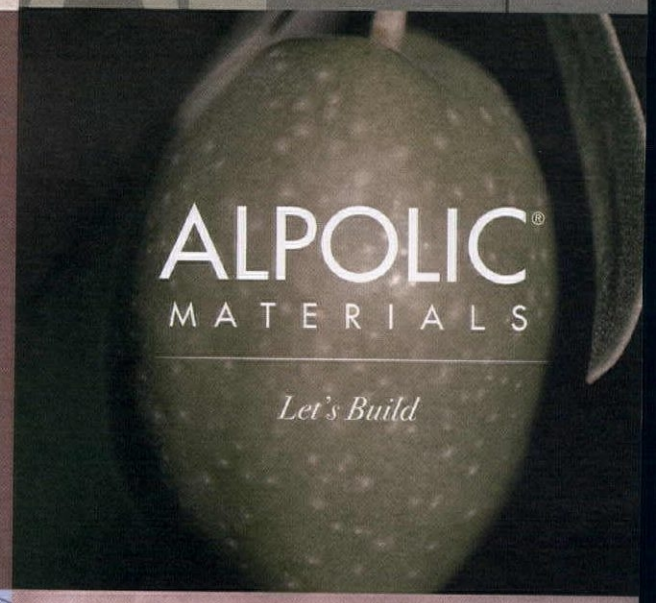
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in brief



Tile Showrooms Stack Up in NYC

NOMAD, THE MANHATTAN neighborhood north of Madison Square Park, is fast becoming a hotspot for tile, with an influx of high-profile showrooms from manufacturers representing Italy, Spain, and the United States.

Italian mosaics specialist **SICIS** will move at the end of the year from its SoHo location to a 5,000-square-foot, five-story townhouse at 240 Fifth Avenue. (The relocation comes on the heels of the company's purchase of another New York City property, a 50,000-square-foot industrial facility in the South Bronx.) Designed by longtime collaborator **Massimiliano Raggi** with New York–based architects **Studio Morsa**, the SICIS Art Factory TownHouse showroom will feature the company's celebrated tile along with its furniture, lighting, home accessories, hardware, and jewelry.





TEMPLES TO TILE Porcelanosa's flagship showroom (top left and below) features 8 stories of surfacing materials and fixtures; the SICIS Art Factory TownHouse (top center) will offer artisan tile and home goods; the Daltile/Marazzi showroom (top right) mixes fun and function.



PHOTOGRAPHY: COURTESY OF PORCELANOSA, SICIS, AND DALTILE

Since NoMad is home to a concentration of trendy hotels and shops, it was important that the showroom be suited for retail consumers as well as the trade. "The area is now the epicenter of what's new in design," says **Amy Tanenbaum**, president of SICIS North America. She notes that in addition to showcasing custom and limited-edition pieces, the space will highlight the company's collaborations with artists and artisans. "SICIS is a made-and-bespoke company that manufactures all its materials, from the molten glass to the finished product," says Tanenbaum. "The space's purpose is to echo that."

Porcelanosa is also making a statement—and it's at 202 Fifth Avenue, right down the street from SICIS. In mid-September, the Spanish tile manufacturer opened an eight-story, 18,000-square-foot flagship showroom designed by Pritzker Prize winner **Norman Foster** in the landmark Commodore Criterion Building.

Along with amenities like a café, bar, and lounge, the certified LEED Gold building has a retractable ceiling made of Porcelanosa's Krion Solid Surface. Additionally it boasts touch-screen displays that elaborate on the showroom's 1,000-plus products, which range from tile, stone, and hardwood to kitchen and bath fixtures.

Also in mid-September, the Dallas-based tile purveyors **Daltile** and sister company **Marazzi** moved into a new space at 49 East 21st Street. Designed primarily for the trade, the 3,700-square-foot showroom displays products with a blend of personality and practicality. For instance, an intricate apple blossom–shaped wall mosaic alludes to the city's affectionate moniker, and a whimsical tile chandelier by Dallas artist **Tony Collins** hangs in the center of the space. In the library, a variety of lighting levels allow visitors to get a sense of how specific tiles will work in different settings. Plus wall panels and LED screens make searching for products easy—and even fun. —*Stephen Milioti*

in brief

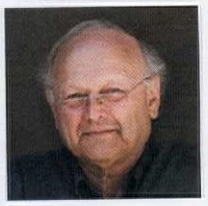
Murcutt's Cersaie Moment

THE 2002 PRITZKER PRIZE winner, **Glenn Murcutt,** will deliver the keynote address at **Cersaie 2015,** the annual ceramic tile and bathroom furnishings trade fair in Bologna, Italy. The Australian architect, known for his sensitivity to the environment and landscape, will deliver his talk September 29 at the Palazzo della Cultura e dei Congressi.

This is a rare chance to catch Murcutt, as he slowly has been trimming down his speaking and teaching engagements abroad and still rarely builds outside his country. Hopes are high that he'll discuss two of his upcoming projects: a mosque in the Melbourne suburb of Victoria, which he is executing in association with local architects **Elevli Cameron**, and the Opal and Fossil Museum, in the outback town of Lightning Ridge, New South Wales. *—Julie Taraska*



FORCE OF NATURE A sketch of Glenn Murcutt's proposed mosque outside Melbourne, Australia (left); the Pritzker Prize–winning architect (below).





RAY OF LIGHT New York City skyscrapers as seen through a prototype SolarWindow module.

Here Comes the Sun

A PROMISING NEW electricity-generating window coating is poised to upend ideas about photovoltaics—and may offer a powerful tool for cutting pollution, too. Currently in development, **SolarWindow** modules comprise ultrathin layers of liquid coatings applied to glass and flexible plastics. Unlike other PV offerings, these organic polymer coatings, primarily made of hydrogen and carbon, produce minuscule solar cells that can generate power not only in sunlight but also in artificial light and on cloudy days.

Independent sources have verified that if SolarWindow coatings were applied to all four sides of a window on a 50-story building, these overlays could produce up to 50 times more energy—and over 12 times the environmental benefits—than a conventional rooftop solar panel system. The exact amount of energy savings generated would depend on the percentage of tint in the coatings, explains **John A. Conklin**, president and CEO of the Columbia, Maryland–based company.

Offerings will range from a clear version that blocks only UV light to "aesthetically pleasing blue-green and green-gray hues that are popular with architects and developers," Conklin says. Current prototypes also feature monofilament wires on the windows that are visible only on close inspection and help boost the coating's efficiency.

SolarWindow is currently working with the National Renewable Energy Laboratory, a federal research body, to further improve the technology. The company is also talking to glass manufacturers and fabricators with the goal of forming strategic partnerships to make and deploy SolarWindow products by 2017. *—SM*

Urquiola Joins the Poltrona Frau Group

UPPING ITS STAR POWER, Italian high-end furniture purveyor the Poltrona Frau Group has appointed **Patricia Urquiola** art director of its historic **Cassina** brand. It also announced plans to involve the Milan-based product designer in the creative direction of sister companies **Poltrona Frau** and **Cappellini**.

In her new role, Urquiola will "contribute to defining the future vision of the Group," says Poltrona Frau Group CEO **Dario Rinero**, "while meticulously maintaining the unique identity and characteristics of each company." Urquiola's initial duties include designing her first-ever pieces for Cassina, overseeing the refurbishment of the brand's Midtown Manhattan showroom, and laying the groundwork for the brand's 90th anniversary next year. No word yet on whether the deal includes an exclusivity clause for the prolific designer, who has made furnishings for the likes of **B&B Italia**, **Moroso**, **Glas Italia**, and **Kettal**.

The appointment also extends the relationship between the designer and case-goods manufacturer **Haworth**, which purchased a majority stake in the Group in 2014. Urquiola already art directs products and spaces for the Holland, Michigan, company. *—JT*

GETTING COZY In her new role at the Poltona Frau Group, design powerhouse Patricia Urquiola will provide creative direction to furniture companies Cassina, Cappellini, and Poltrona Frau.



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CASE STUDY

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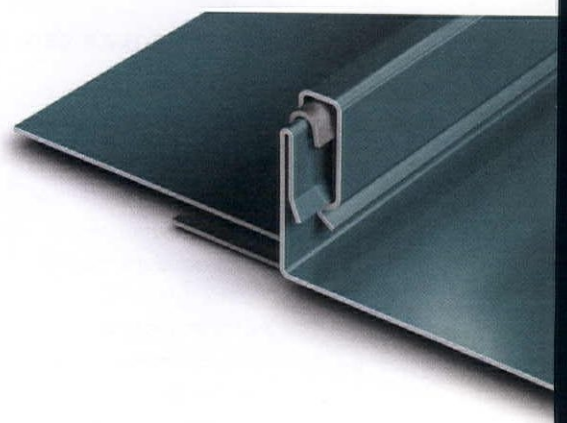
Metal standing seam roofs of nearby New England barns are recreated on the International Magnet School for Global Citizenship using SNAP-CLAD Metal Roofing

Designed in a village configuration, the new 65,000 sq. ft. magnet school blends beautifully with the Connecticut countryside.

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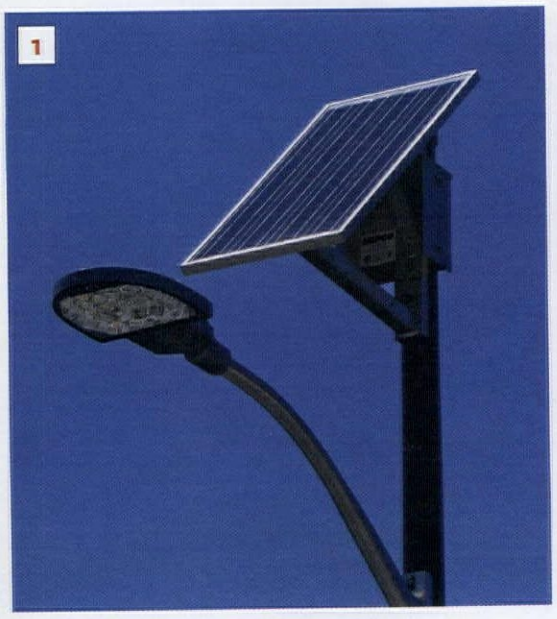
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LUMINOUS CARPETS

MANUFACTURER: Philips and Tandus Centiva
PERFORMANCE: This commercial-grade carpet integrates LEDs that can be synced with a building's management system to run set or custom light displays.
PRICE RANGE: $$–$$$
APPLICATIONS: Ideal for offices, financial institutions, conference centers, and hotels.
PHILIPS.COM
(SNAP #201)

3.
LEXICON

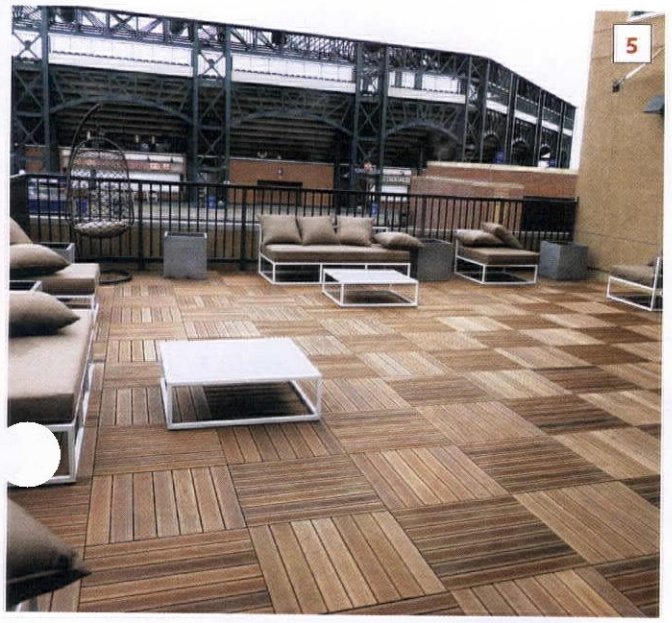
MANUFACTURER: Maglin
PERFORMANCE: Benches feature straight or arced seats with optional backrests in perforated steel, ipé, HDPE plastic, and high-density paper composite. Four leg variations are also available.
PRICE RANGE: $$$
APPLICATIONS: Can be used to create straight, circular, and serpentine compositions.
MAGLIN.COM
(SNAP #202)

4.
ALIAS BY CRYPTON

MANUFACTURER: Burch Fabrics
PERFORMANCE: Made of equal parts polyester and solution-dyed nylon, this upholstery has a Crypton finish and backing. The Greenguard Gold–certified fabric also meets or exceeds all ACT standards.
PRICE RANGE: $$$
APPLICATIONS: Available in six colors and for indoor use only.
BURCHFABRICS.COM
(SNAP #203)

KEY $=VALUE, $$=MID-RANGE, $$$=HIGH-END

= ECO-FRIENDLY ATTRIBUTES









5.
BISON WOOD TILES

MANUFACTURER: Bison Innovative Products
PERFORMANCE: Available in multiple exotic woods, these commercial-grade, Class A fire-rated tiles meet ASTM C1028-07 for slip resistance and ASTM TAS108-95 for wind uplift.
PRICE RANGE: **$–$$$**
APPLICATIONS: Ideal for rooftops, pop-up parks, and on-grade over concrete.
BISONIP.COM
(**SNAP #204**)

6.
DROP HAT SHADE

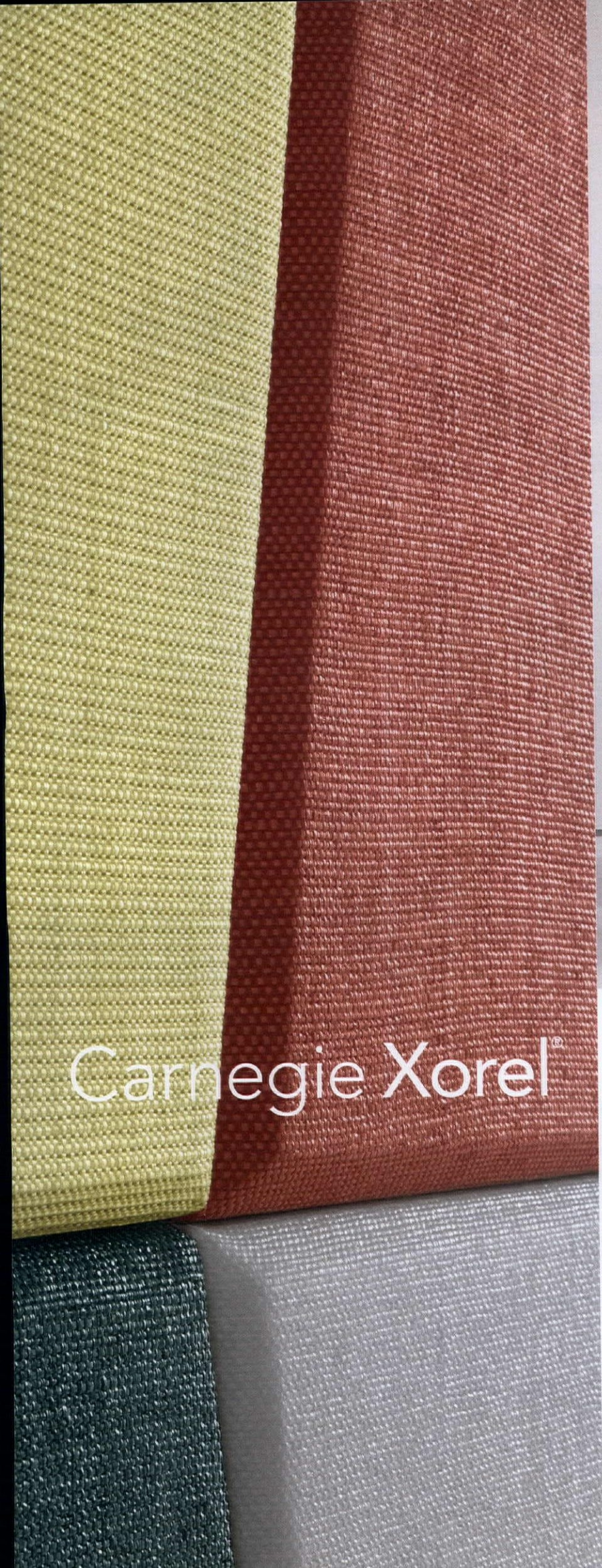
MANUFACTURER: Plumen
PERFORMANCE: Sleek metal discs paired with the company's energy-efficient bulbs and Drop Cap pendants make for easy installation.
PRICE RANGE: **$–$$**
APPLICATIONS: Suitable for use alone or in clusters to create striking displays; available in black, brushed brass, chrome, copper, and white.
PLUMEN.COM
(**SNAP #205**)

7.
PAINTERLY PANELS

MANUFACTURER: 3form
PERFORMANCE: These five colorful patterns, encapsulated in either Infinite glass or the company's proprietary Varia Ecoresin, are made of 40% pre-consumer recycled content.
PRICE RANGE: **$$**
APPLICATIONS: Best for interior partitions, doors, ceilings, and wall applications.
3FORM.COM
(**SNAP #206**)

8.
LAINE BARSTOOL

MANUFACTURER: Bernhardt Design
PERFORMANCE: This stool by Turkish designer Defne Koz tops a delicate-looking base of polished or brushed stainless steel with a carved walnut seat.
PRICE RANGE: **$$$**
APPLICATIONS: Ideal for hospitality, office, retail, and residential interiors.
BERNHARDTDESIGN.COM
(**SNAP #207**)





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INTERVIEW BY JULIE TARASKA

Ingrid Farago: Time Traveler

Associate, Rockwell Group, New York City

WHY DID THE OWNERS WANT THE TIME HOTEL NEW YORK REFURBISHED?

They felt the hotel needed a refresh to return it to the dynamic place it once was. When it launched in 1999, it was a destination for creatives—a brave, exciting boutique hotel.

TELL US ABOUT THE PRIMARY MATERIALS PALETTE ON THE GROUND FLOOR.

The first-floor concept is very much about a secret and seductive hotel, a hidden gem in the middle of the concrete jungle. The palette reflects that via chrome portals, black glass with changing digital graphics, moments of brass, and a gold glass-clad elevator cab that disappears up to the hotel's second-floor reception.

WHAT TYPE OF LIGHTING DID YOU SELECT FOR THE PROJECT?



Rockwell Group custom-designed most of the decorative lighting throughout the hotel. In the guest rooms, we used our own lensed fixtures (right) above the bed and behind the headboard, layering the light to create patterns and movement. In public areas, we opted for pieces from Flos, David Weeks Studio, and others.

NAME SOME OF YOUR FAVORITE PRODUCTS USED IN THE PROJECT.



Flavor Paper's Cubenisimo wallcovering (left), used in the second-floor restroom cubicles, is a lot of fun. What seems like a serious gray restroom explodes with color and pattern when you open the cubical door—it's very trippy! We were thrilled to be able to specify Moroso furniture in many spaces. We worked with the company to scale down its Klara chair to suit our guest rooms and opted for its Paper Planes chairs in the penthouse, Tia Maria in the suites, and Redondo armchairs in the bar.

WHAT WILL BE THE NEXT BIG THING IN HOSPITALITY DESIGN?

Everything will be about experience. We live in a connected world where design is no longer hidden away. Guests educate themselves via blogs and Pinterest, and as a result, they are expecting more and more.

Concurrent with the Time Hotel renovation, **INGRID FARAGO** *has been working on the New York headquarters of William Morris Endeavor and Sky, a 1,175-unit luxury residential rental tower in Midtown Manhattan. A native of Australia, she studied interior design at the Design Centre Enmore, Sydney Institute of Technology.*

193

The total number of guest rooms, suites, and penthouses in the Time Hotel New York.

The designer sits in one of the refurbished guest rooms at the Time Hotel New York, located in Manhattan's Theater District. The contemporary hotel includes public spaces, a restaurant, and accomodations defined by luxurious materials and jewel-like finishes.

PHOTOGRAPHY: COURTESY OF ROCKWELL GROUP

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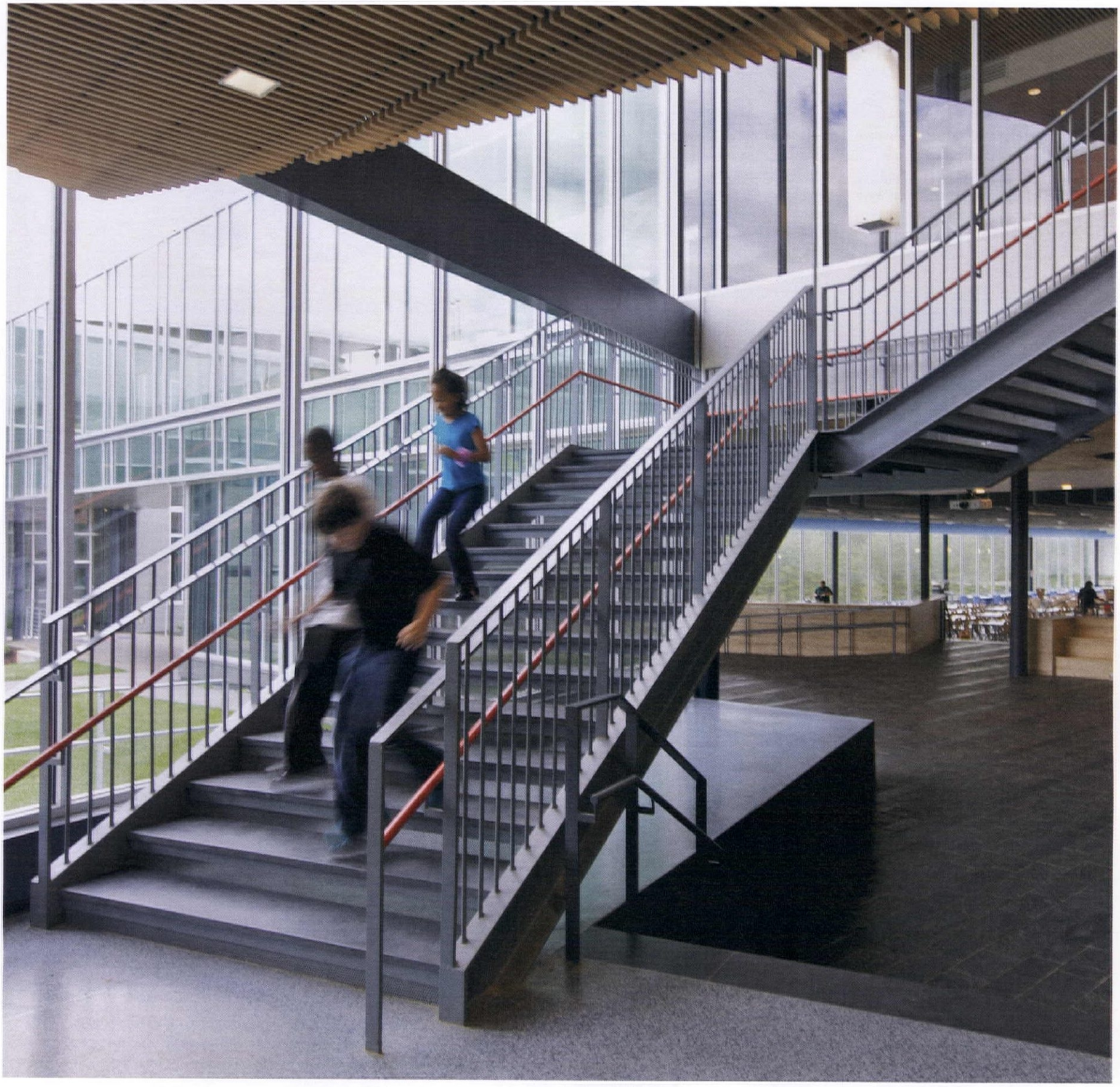
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SNAP 50

TECTURA DESIGNS is a Wausau Tile Inc. brand



PHOTOGRAPHY: ALAN KARCHMER

BUCKINGHAM PRIMARY & ELEMENTARY SCHOOL, DILLWYN, VIRGINIA

All the Right Moves

PROBLEM: *To create a holistic environment that encourages healthy eating and living habits for students and teachers alike.*
SOLUTION: *Use the building, its interior, and its grounds to encourage movement and well-being in both small and large ways.*

THE STAGGERING U.S. childhood obesity rates are, by now, all too familiar. Quick solutions—like banning soda and offering celery sticks in the cafeteria—don't cut it as the sole agents of change. So in 2009, when educational officials in Virginia's Buckingham County sent out RFPs for a new K–5 school, they sought proposals that would introduce health practices into the curriculum. VMDO Architects, located in nearby Charlottesville, proved to be the perfect partner.

In conjunction with public health officials and built-environment experts, the firm researched the connections between architecture, health, and learning environments. The result, the Healthy Eating and Physical Activity Design guidelines (HEDG and PADG, respectively), became the blueprint for the

RUN ALONG Students descend from the bridge that links the two school buildings—one of the facility's "effortless" built-in opportunities to exercise.

1,000-student school, an adaptive reuse combining two buildings.

Of the guidelines, says VMDO associate and project designer Dina Sorensen, "We were interested in creating a tool for multiple stakeholders to implement, whether the whole thing or just a component or two."

A central tenet was to add effortless ways for students and teachers to engage in low-to-moderate physical activity throughout the day. Now, within the building are modular mobile seats, standing desks, and stools that promote dynamic sitting and encourage kids' natural movement, which is beneficial to their bodies and concentration levels. Reading nooks and open learning areas pique their curiosity and provide room to roam. "The furniture has to be able to move out of the way quickly or be reconfigured as part of physical activity," says Sorensen about the choice of furnishings.

Outside, students and teachers enjoy a 14-acre park full of opportunities to play, exercise, and educate. Gardens and terraces appropriate for each age dot the space, as do communal walking and biking paths. Students learn about plants and gardening, with some ingredients grown on the grounds supplementing the dining-hall lunch menu.

Also key to the project was rethinking circulation routes between the academic, recreational, and food areas. For example, to travel between the buildings, students can go up a staircase, cross a bridge with stunning views, and then head back down another set of stairs. Or they can continue along the ground floor, an indoor-outdoor path in which they encounter both blueberry bushes and local flora. "Either way, children get some wonderful physical movement and the chance to interface with all the magical things happening in nature," says Sorensen.

The design team reinforced that connection with nature by opting for large glass picture windows throughout the buildings. Local kyanite and Buckingham slate—quarried from 12 miles away—was also used inside the school and out.

Meanwhile, public health scientists at the universities of Nebraska and Virginia have analyzed VMDO's holistic approach to Buckingham Primary and Elementary's design and the firm itself has earned numerous awards for the project, which received LEED Gold certification. VMDO plans to continue researching the connections between design and educational practices, searching for even more ways to use architecture to promote health, learning, and a better quality of life. Says Sorensen: "We do notice a cultural shift. People really want this." ■



ARCHITECT
VMDO Architects
TYPE
School
PRODUCT
Panel Grille suspended wood ceiling

MANUFACTURER
Rulon International
PERFORMANCE
An acoustically neutral ceiling made from prime-grade, all-natural ash; other wood species offered.

APPLICATIONS
Suitable for walls and ceilings in large and small public and commercial spaces.
PRICE RANGE $$
RULONCO.COM
(SNAP #208)

SIT ON IT
Modular mobile seats and stools that promote dynamic sitting encourage kids' natural movement.

IN THIS PROJECT

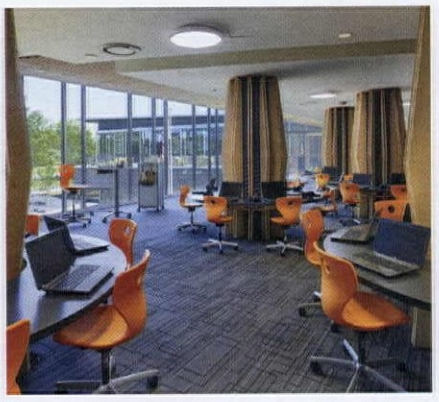
= ECO-FRIENDLY ATTRIBUTES

KEY $=VALUE, $$=MID-RANGE, $$$=HIGH-END



MECHOSHADE 1300 SERIES

MANUFACTURER: MechoShade
PERFORMANCE: Composed of 25% polyester and 75% PVC, this roller shade with an open basket-weave pattern offers sun control and a uniform scrim appearance.
PRICE RANGE: $$
APPLICATIONS: Shades lower HVAC costs while protecting building occupants from solar heat gain and glare; can also be used as a visual barrier between spaces.
MECHOSHADE.COM
(SNAP #209)



CARPET TILES

MANUFACTURER: Shaw Contract
PERFORMANCE: Rated Gold on the NSF 140 sustainability scale, these commercial tiles feature Shaw's proprietary EcoSolution Q Nylon, which contains over 35% pre-consumer recycled content.
PRICE RANGE: $$
APPLICATIONS: High-traffic areas that could benefit from dynamic visual texture, including those in GSA properties.
SHAWCONTRACTGROUP.COM
(SNAP #210)



HOKKI STOOL

MANUFACTURER: VS America
PERFORMANCE: The stool's polypropylene body makes the seat light but highly stable; the slightly convex, nonslip base can move in any direction.
PRICE RANGE: $–$$
APPLICATIONS: Available in sizes suitable for children and adults, the seat is ideal for multipurpose rooms in schools, community centers, museums, and other public spaces.
VS.DE/EN/HOKKI
(SNAP #211)



TREEFROG WOOD VENEERS

MANUFACTURER: Treefrog
PERFORMANCE: Laminate-backed for easy installation, the prefinished, 4-by-8-foot sheets of furniture-grade wood veneer come in a variety of species.
PRICE RANGE: $$
APPLICATIONS: Ideal for large or tight spaces where it would be cost-prohibitive or physically impossible to have solid-wood panels.
TREEFROGVENEER.COM
(SNAP #212)

PHOTOGRAPHY: ALAN KARCHMER

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SNAP 39

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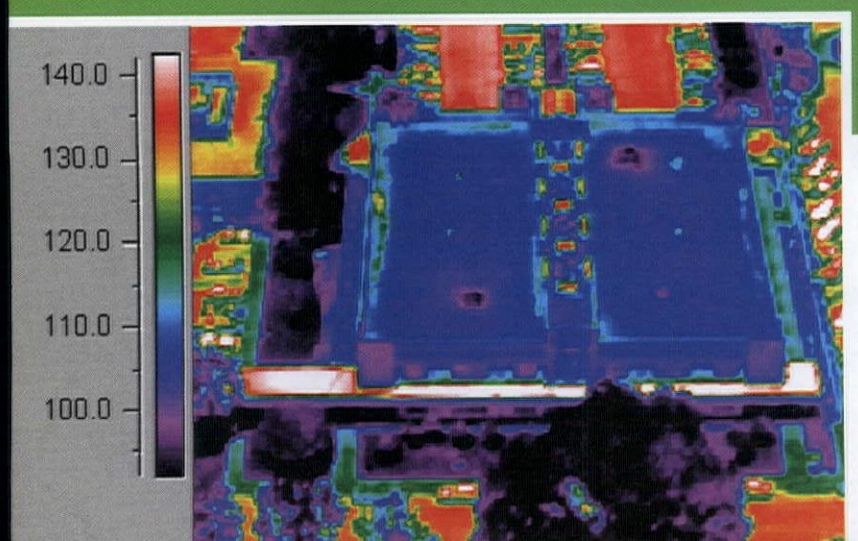
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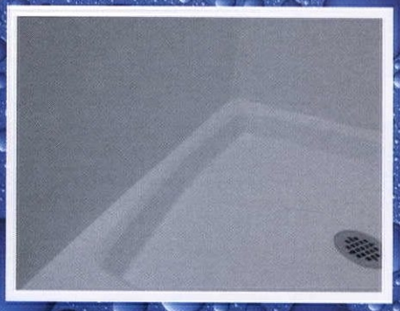
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GREAT ROOMS
The reception area at The Agnes Irwin School (above) encourages students of all ages to mingle. The school's dining facility (right) doubles as a meeting hall—and offers amazing views of local greenery.

Making the Grade

Flexible designs and green materials build community at three K–12 schools.

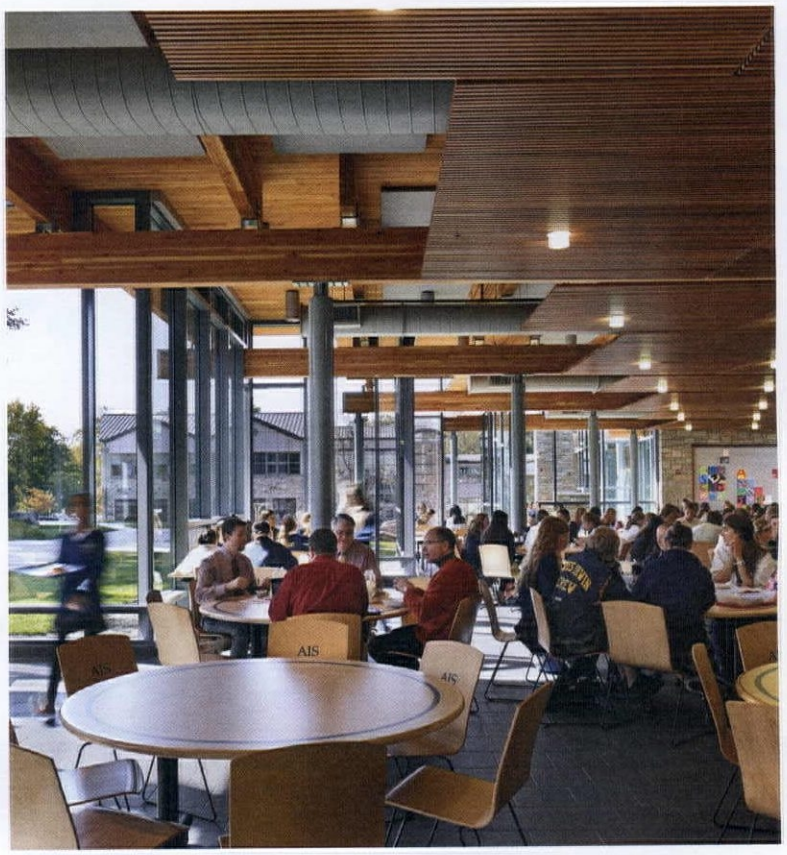
BY STEPHEN TREFFINGER

WITH STUDENTS INCREASINGLY TECH-SAVVY and trends in education changing, architects are rethinking what should constitute a school. Instead of offering the traditional array of classrooms, a gym, and an auditorium, they're taking cues from office design, opting for multiuse spaces, nooks for private conversations, and open-plan layouts that foster interaction.

ALL TOGETHER NOW

Uniting a large student body of young girls with a 13-year age span is no small feat. Yet that was the task facing **Bohlin Cywinski Jackson** when the Pennsylvania-based firm embarked on a 78,000-square-foot addition to The Agnes Irwin School in Rosemont, Pennsylvania. "In the original building, there were no places to mingle," says BCJ project manager Wolfram Arendt. "Younger kids in particular were separated out."

The solution begins with a reception area that serves as equal parts welcome zone and hangout center. With seating areas and a bespoke **Champlain Stone** and **Manayunk Timber** fireplace anchoring the space, the room sets the tone for the school's communal vibe and eco-conscious practices. An angled roof and clerestories made of Douglas fir **Lock-Deck** laminate decking give the space an airy feel,

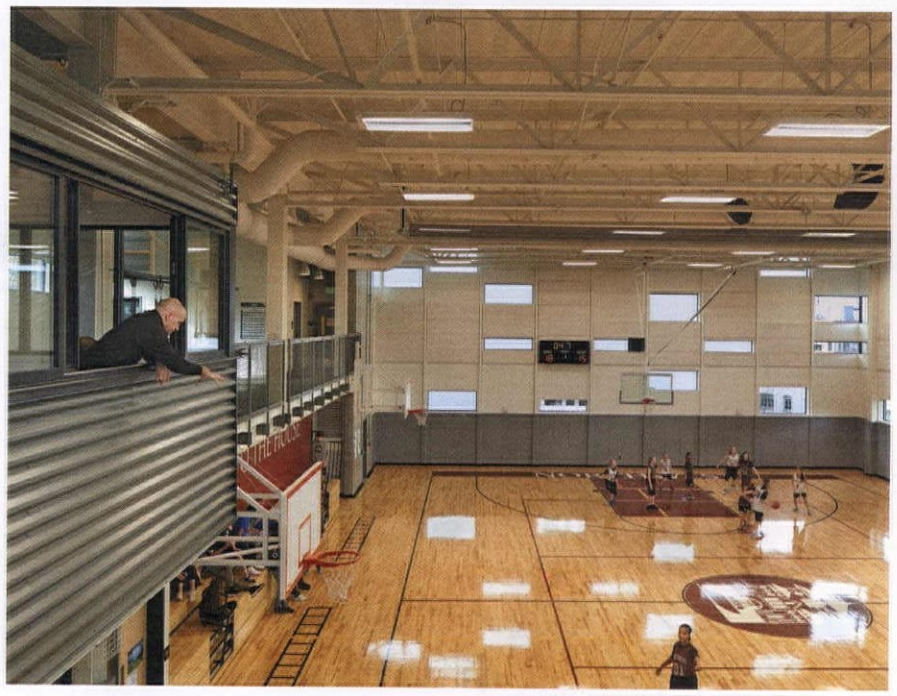


PHOTOGRAPHY: JEFFREY TOTARO



LET THEM PLAY
A grid of two-tone exterior cladding and fiberglass windows enlivens the exterior of the Northwest School (left). The building's gymnasium features a "lifeguard shack" for catching the action (below right). The rooftop field (below left) lets students at play take in fresh air.





while the **Kawneer** 1600 wall system curtain wall features openable windows. **WattStopper** timers and motion sensors control the high-efficiency lighting.

A student "street" runs the length of the campus, providing nooks and seating for private and group conversations. In the large dining facility, located near the entry hall, a **9Wood** poplar-grid ceiling hides ductwork and is complemented by **Rheinzink** preweathered blue-gray exterior overhangs and trellises. During off-hours, the area is used for informal meetings, presentations, and club gatherings.

UNDER ONE ROOF

Expanding a school within a city can lead to a splintered existence for students and faculty alike, as they end up traveling to disparate locations for different activities. Such was the case with The Northwest School in Seattle. Founded in the 1980s, the preparatory school for grades 6 to 12 started in a wood-clad landmark building. As the school population grew, classrooms were added, but it wasn't enough. There were still two external gyms and a dining hall in a third building; a theater had to be rented for productions. Now all the facilities are housed a mere 100 feet from the main structure in a new 38,000-square-foot addition by local firm **Mithun**.

In a visual nod to the original structure, the addition's exterior features rectangular panels of **Silbonet** fiber-cement cladding—in two tones of ocher—interspersed with **Cascadia** fiberglass windows. The glazing is translucent on the north side and diffused on the east and west sides to avoid glare and optimize natural light in the ground-level cafeteria and the gym on the upper floors. "We had to see how much daylight we could get in from the walls alone, working without top lighting," says principal architect Richard Franko, noting that the 6,000-square-foot rooftop playing field made installing skylights impossible. "So we varied clear and diffused glass to provide balanced lighting in and around the gymnasium."

PHOTOGRAPHY: BENJAMIN BENSCHNEIDER/OTTO





Between its multiple athletic spaces, dining area, and below-grade theater, the facility needed serious acoustic separation. To dampen impact sounds from the gym, the architects used a **Connor Uniforce** floor, **Quiet Qurl** mesh pad, and 8-inch concrete slab between the stories. To muffle the sound of scraping chairs and musical revues, they opted for a **Marmoleum** floor so diners and actors could coexist.



PEEK-A-BOO
The curtain walls enclosing the courtyard at The Little Red Elisabeth Irwin School feature a circular frit pattern (above). The belowground student lounge has skylights up to the exterior courtyard (above right). A stairwell off the courtyard (left).

CAMPUS LIFE

The Little Red Elisabeth Irwin High School in Manhattan had long outgrown its single building. A complete renovation and a 22,000-square-foot addition to the original structure gave the urban student body a new, more campus-like facility, with pavilions devoted to science, the arts, and the humanities. It also created a series of outdoor spaces for work and play.

The project's most striking feature is a series of **Kawneer** 1600 curtain walls surrounding the addition's courtyard. Each is covered with low-iron, low-E **Old Castle** glass with a circular ceramic frit that allows light to permeate the structure and lends visual interest to the exterior. The pattern plays with privacy and perspective, says project lead Andrew Bartle of **ABA Studio/Andrew Bartle Architects**, and is "very transparent when an individual is up close to it, but gives a fuzzy picture when viewed from a distance."

In the addition, pared-down finishes keep things from looking too polished. Concrete floors, exposed **Acoustideck** flooring, surface-mount light fixtures, and **Decoustics** wall panels wrapped in **Designtex** fabric give the space a slightly rough, industrial feel. A marble floor leads from the entryway to the admissions office (its reconstructed woven pattern echoes the one found in the original LREI building), while marble treads reminiscent of those in old diocese schools line the stairs.

The result is that rather than separating students, the addition unites them by creating additional opportunities to interact. "Now there are spaces to congregate," says Bartle. "Some of them are formalized and some are more residual. But together they are places to build community." ■

PHOTOGRAPHY: DURSTON SAYLOR PHOTOGRAPHY


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SNAP 3

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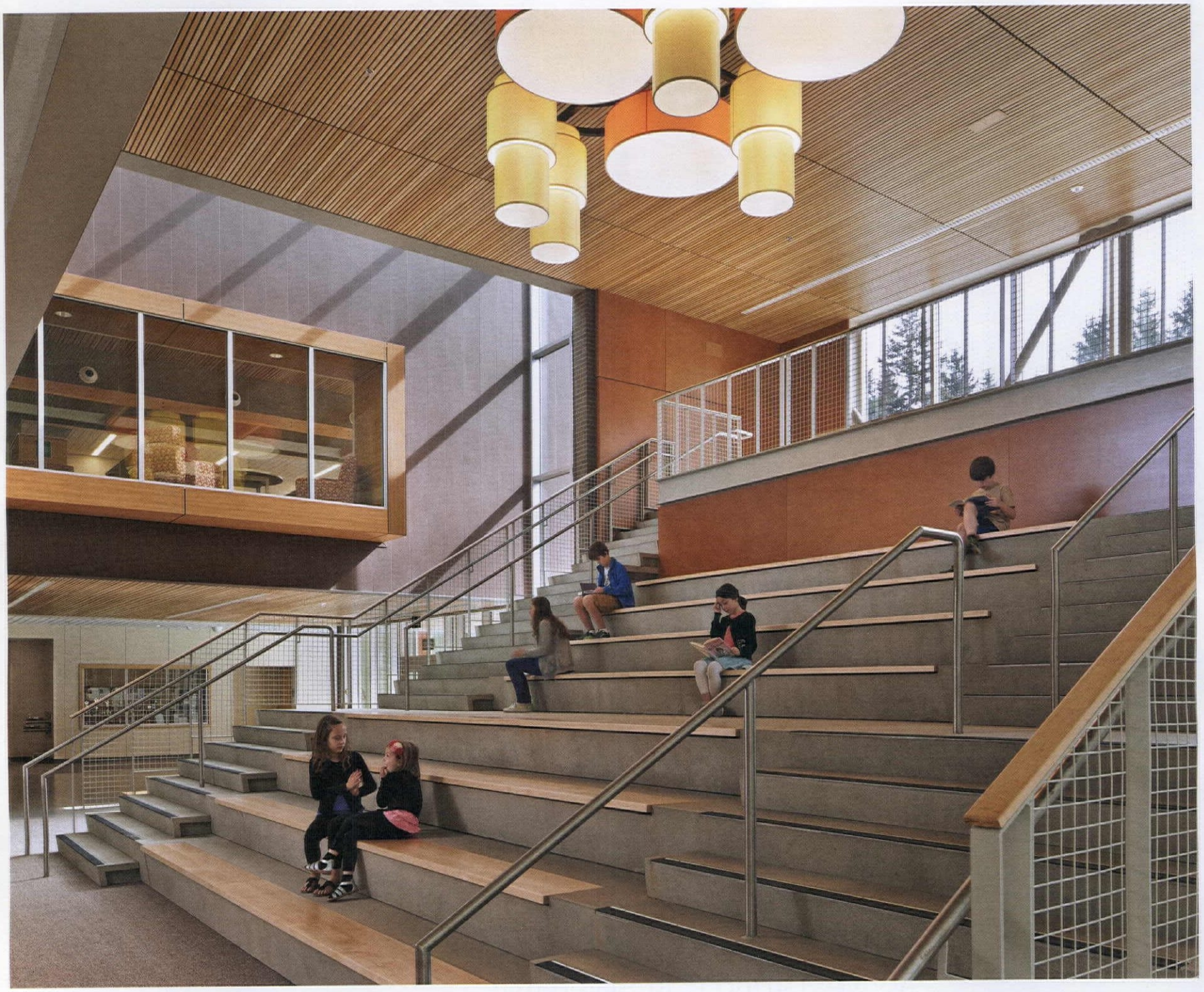
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Flex Appeal

WITH INPUT FROM the community and students, Seattle's NAC Architecture developed a program for the Cherry Crest Elementary School in nearby Bellevue that utilizes the site and structure as teaching tools. Key was a variety of outdoor and indoor spaces that could accommodate traditional and casual learning. These places include a courtyard and numerous plazas that let classes large and small enjoy the wooded landscape, along with interior breakout spaces such as the Learning Stairs: bleacherlike seats off the lobby where students can do homework, meet with others, or just take in the view.

The flexible setups reflect trends in educational design. "Strategies such as good daylighting and visual transparency between rooms have transformed school design over the last couple of decades," says NAC principal Boris Srdar. As school districts begin competing with private online learning centers for students, he adds, the experience a school creates will grow in importance.

Offering spaces for formal and informal learning "will enable educational facilities to provide relevant and inspirational environments for learning," says Srdar. Using architecture to connect students with nature, as well as to support new teaching styles, he predicts, will be central tenets. *—Lisa Caldwell*

MEET-UP
The Learning Stairs at Cherry Crest Elementary accommodate a broad range of uses, from casual rendezvous spot to location for student presentations.

PHOTOGRAPHY: NAC ARCHITECTS



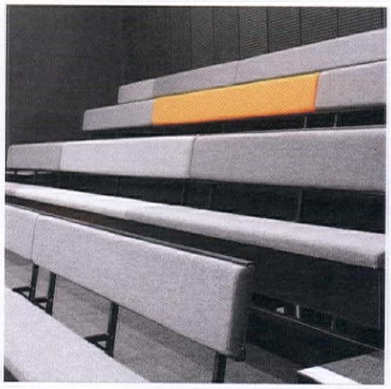
TOUCHDOWN CHARGING LOCKER

MANUFACTURER: Slyde
PERFORMANCE: A single electrical outlet can power as many as eight lockers. Locking options include four-digit codes for timed access and private codes for repeated use.
PRICE RANGE: $$
APPLICATIONS: Wall-mounted or stacked, these lockers provide secure storage for students and faculty. Each unit can charge up to four electronic devices that use USB ports and/or AC outlets.
SLYDEDRAWER.COM
(SNAP #213)



SIXE LEARN CHAIR

MANUFACTURER: PearsonLloyd for Howe
PERFORMANCE: The tablet arm rotates 360 degrees for easy and convenient access. The chair, available in six colors, comes in stacking and armchair models.
PRICE RANGE: $$
APPLICATIONS: This wheeled chair featuring an integrated bag hook and cup holder is ideal for educational settings that emphasize mobility and collaboration.
HOWE.COM
(SNAP #214)



FOLDING BENCHES

MANUFACTURER: Hussey Seatway
PERFORMANCE: This system of telescopic bleachers, available in a variety of widths, row rises, and row depths, can maximize floor space in assembly halls and gymnasiums.
PRICE RANGE: $$$
APPLICATIONS: Available with a motorized or manual retracting mechanism as well as with complementary mobile and freestanding platforms.
HUSSEYSEATWAY.COM
(SNAP #215)



MARKERBOARD ACTIVITY TABLE

MANUFACTURER: Classroom Select
PERFORMANCE: A height-adjustable table with a reusable dry-erase work surface. The top of the table is secured with spot-nailed vinyl trim.
PRICE RANGE: $
APPLICATIONS: Suitable for classrooms, offices, and art studios, the table is offered in eight shapes and 27 sizes.
CLASSROOMSELECT.COM
(SNAP #216)

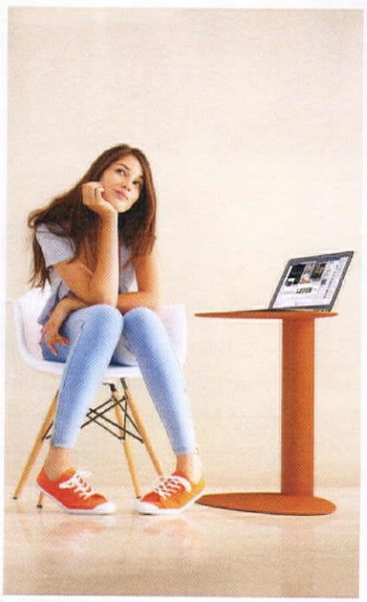
KEY $=VALUE, $$=MID-RANGE, $$$=HIGH-END

Lessons Learned



WITH THE LEARNING EXPERIENCE increasingly expanding beyond the confines of the classroom, schools are taking furnishing cues from the wireless workplace. Stand-up computer stations such as **Peter Pepper**'s wall-mount worktables strategically stud hallways. In libraries or lobbies, kids and teachers can freely arrange into colorful clusters the low-slung seating and work surfaces, emulating office huddle spaces. And the ubiquitous whiteboard has been updated with wheeled options, as in the Verb collection from **Steelcase**, helping make lessons portable. —*LC*

BACK TO SCHOOL
Allsteel's Scooch stools and Rise tiered seating modules (left) work in schools and open-plan offices alike, supplying solutions to a range of seating needs. BDI's handy Bink table (below).



PHOTOGRAPHY: COURTESY OF ALLSTEEL AND BDI

SNAP BACK



BRUCE KUWABARA
Partner
KPMB Architects
Toronto

"Every academic institution today is seeking to activate trans- and interdisciplinary research and learning. Architects must expand their design thinking beyond function and form-making, creating instead an architecture that offers choices for where and how to study and learn."

SNAP FACT

21%

Percentage of existing K–12 American school buildings that are rated in fair condition.

3% are scored as being in poor shape.

SOURCE: THE NATIONAL CENTER FOR EDUCATION STATISTICS



Panel Members

THE PREMISE was straightforward: develop 264 luxury residential apartments in Redwood City, California, using a variety of exterior cladding materials. San Francisco–based BDE Architecture met the challenge by covering the facade of the community's two wood-frame buildings with a mixture of stucco, brick, fiber cement—and aluminum panels. "The panels were chosen for their simplicity and clean lines as opposed to the corrugated look of other metal products," says Alex Koulouris, senior associate at BDE.

The firm specified three Morin products in weathered zinc and silversmith finishes for the building's siding and soffit accents. The variety of profiles and sizes yielded a unique-looking result. "In the end, the use of metal helped pronounce the corners of the two buildings," says BDE associate Grant Weaver. "It brought a more distinguished aesthetic to a residential project than other material choices could have." —*Nigel F. Maynard*

MIXED MATERIALS Aluminum cladding in three finishes lent a refined touch to a luxury residential complex, designed by BDE Architecture, in Redwood City, California.

PHOTOGRAPHY: COURTESY OF BDE ARCHITECTURE



THIN SEAM METAL ROOFING

MANUFACTURER: Fabral
PERFORMANCE: This snap-together panel system, offered in various standard and custom colors, requires no mechanical seaming tools and has a 20-year warranty.
PRICE RANGE: $$$
APPLICATIONS: Ideal for roofing in commercial and residential projects.
FABRAL.COM
(SNAP #217)



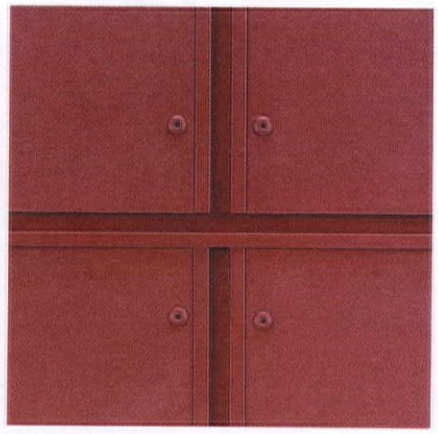
PROXIMA VENTILATED FACADE

MANUFACTURER: Century Ceramiche
PERFORMANCE: Created with lightweight ceramic tiles, this rainscreen provides sound and thermal insulation and reduces humidity and indoor condensation. It's available with either an exposed or concealed fastening system.
PRICE RANGE: $$
APPLICATIONS: A cladding system for commercial buildings.
CENTURY-CERAMICA.IT
(SNAP #218)



VMZINC WALL PANELS

MANUFACTURER: Dri-Design
PERFORMANCE: Installed as a pressure-equalized rainscreen or over building paper and plywood, this metal wall-panel system features an interlocking design whose joints don't require sealants, gaskets, or butyl tape.
PRICE RANGE: $$
APPLICATIONS: Install on exterior walls of residential and commercial buildings.
DRI-DESIGN.COM
(SNAP #219)

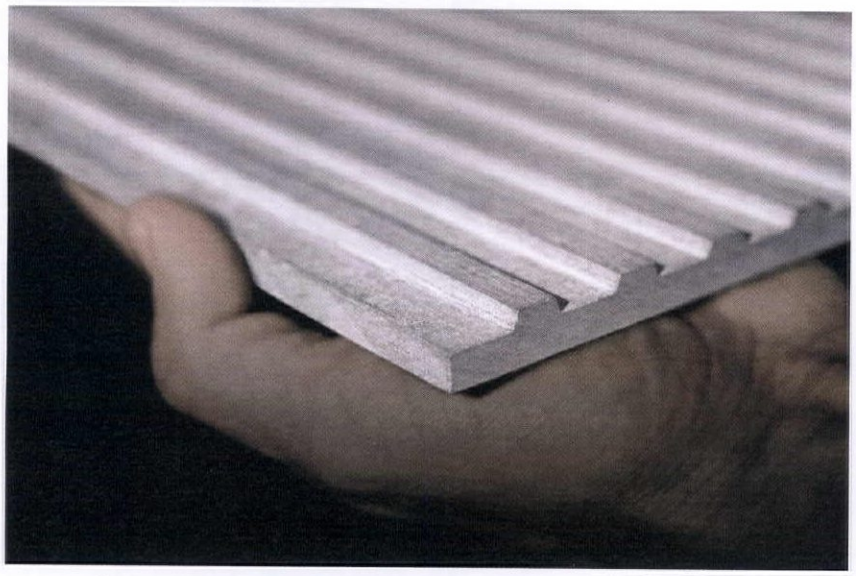


REVEAL PANEL SYSTEM

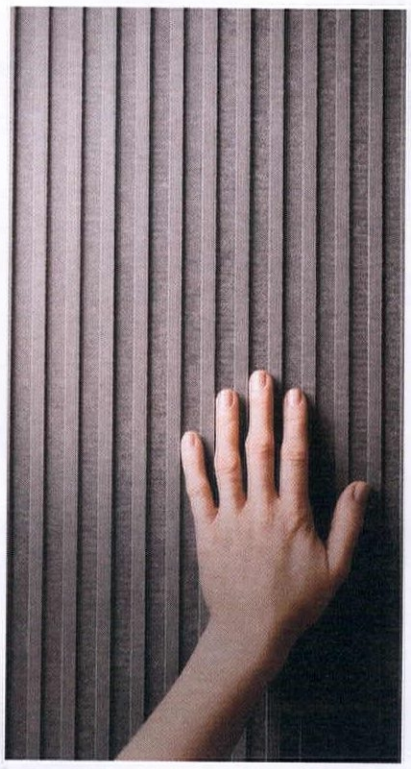
MANUFACTURER: James Hardie Commercial
PERFORMANCE: These 4-by-8-foot fiber-cement panels, which can be installed horizontally or vertically, can be cut on-site.
PRICE RANGE: $$
APPLICATIONS: Designed for multifamily, mixed-use, and light commercial buildings.
JAMESHARDIECOMMERCIAL.COM
(SNAP #220)

KEY $=VALUE, $$=MID-RANGE, $$$=HIGH-END

Groove Theory



LINE-UP
Equitone's [Linea] fiber-cement cladding has a three-dimensional texture.



A POPULAR CHOICE for commercial and residential cladding, fiber cement has long come in a variety of smooth and wood-grain textures. Now there's a new version on the scene: a three-dimensional take whose deep grooves play with light. Textured with linear channels, [Linea] by **Equitone** responds to the changing angle of sunlight, producing random, ever-shifting shadows on a building's facade. Made of cement, cellulose, and minerals, the cladding is reinforced by a visible matrix, with exterior and interior the same hue. [Linea] comes in 10-by-4-foot panels that can be cut into any size or shape. It also can be installed with an exposed or invisible fastening system. —*NFM*

PHOTOGRAPHY: COURTESY OF EQUITONE

SNAP BACK



SEBASTIAN MARISCAL
Principal
Sebastian Mariscal Studio
Somerville, Massachusetts

"Rainscreens are phenomenal for energy and drainage purposes; I have done stone, wood, and brick versions. I prefer to use them in most of our projects, but sometimes a budget won't permit it."

SNAP FACT

U.S. demand for roofing is projected to advance **3.9%** annually, with the industry reaching 252 million squares—and a value of

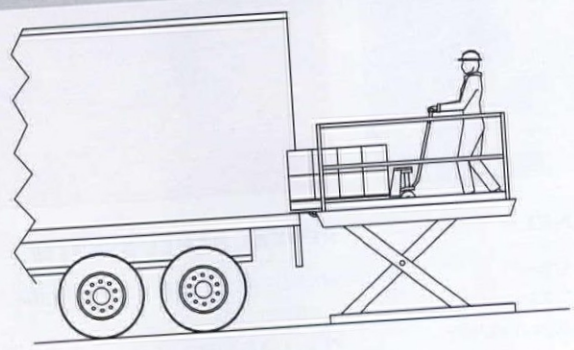
$21.4 BILLION

—in 2019. Asphalt shingles will remain dominant while roofing tiles, metal roofing, and plastic roofing will grow the fastest.

SOURCE: FREEDONIA GROUP

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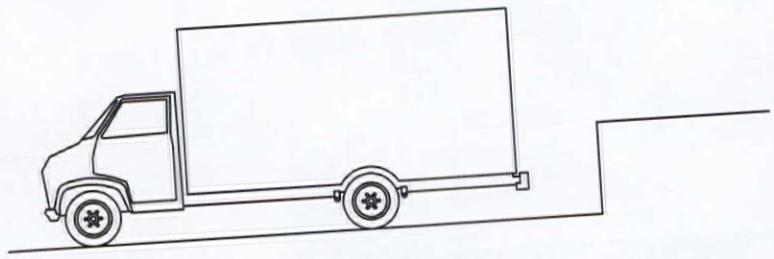


MANHANDLING LOADS CAN BE VERY DANGEROUS



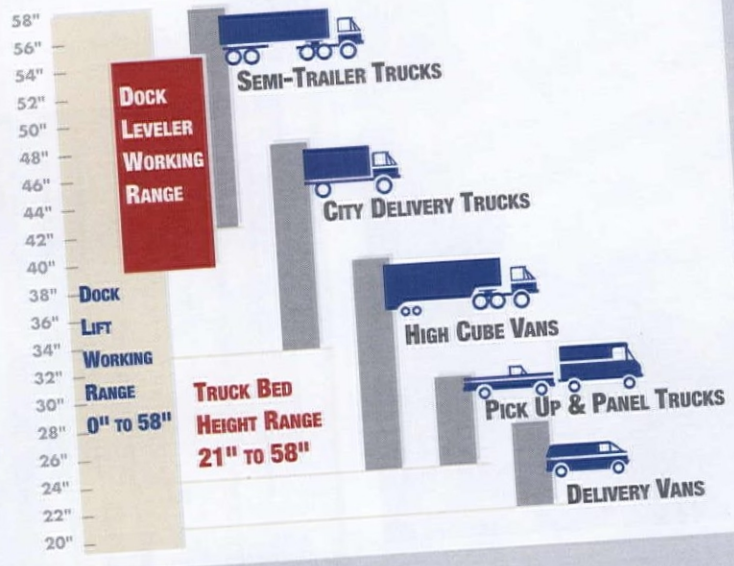
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A Show of Mercy

EXPERIENCE LED architects HKS and the McCarthy Building Companies to design Mercy Hospital Joplin to be more resilient than most healthcare facilities. After all, the 890,000-square-foot facility's predecessor, the St. John's Mercy Hospital in Joplin, Missouri, was destroyed in 2011 by a catastrophic tornado. So the new structure met guidelines set out in FEMA 577, ICC 500, and the Miami-Dade Building Code, which jointly cover the gamut of natural disasters.

The hospital has hardening features galore. Impact-resistant doors protect entry vestibules while public areas, emergency rooms, and intensive-care units have windows rated to withstand wind speeds of 110, 140, and 250 miles per hour, respectively. Laminated glass appears throughout, and reinforced walls and doors secure patient corridors and data and equipment rooms. Precast concrete cladding and a concrete roof fortify the building shell. A 30,000-square-foot central plant houses all utilities below grade and connects to the building via a 450-foot-long underground tunnel. When power is lost, a backup generator assures 96 hours of operation.

With resilience a growing concern in architecture, the hospital has elicited much interest. Says Ryan Felton, McCarthy project director: "Designers and owners are really looking at the importance of keeping a facility operational, so they're going to implement whatever they can." —*Alice Liao*

TOUGH STUFF
Mercy Hospital Joplin has windows rated to withstand wind speeds up to 250 miles per hour (above) and a building shell fortified by precast concrete cladding (right).



PHOTOGRAPHY: HKS



AX SERIES EXIT DEVICES

MANUFACTURER: Falcon
PERFORMANCE: Compliant with the 2010 ADA Standards for Accessible Design, these ANSI/BHMA Grade 1–certified devices require no more than 5 pounds of force to work. They are also UL-certified to the California Building Code and UL-listed for fire and panic hardware.
PRICE RANGE: $
APPLICATIONS: Offered in versions for heavy and moderate traffic, in a variety of functional, electronic, and finish options.
ALLEGION.COM/US
(SNAP #221)



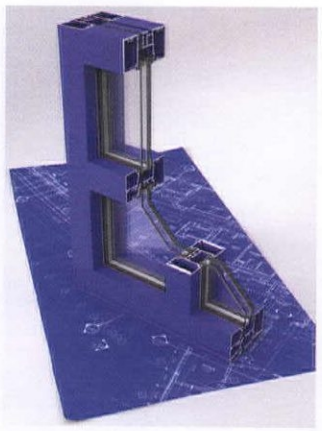
SENSEON SECURE ACCESS

MANUFACTURER: Accuride
PERFORMANCE: This commercial-grade access-control system requires users to tap an RFID card over a proximity reader to unlock cabinets, furniture, and fixtures.
PRICE RANGE: $$
APPLICATIONS: The programmable system eliminates the need for locks and key rings, and each proximity reader—which can be surface-mounted or concealed—controls up to 15 doors or drawers.
ACCURIDE.COM
(SNAP #222)



CIMARRON LUMINAIRE

MANUFACTURER: Hubbell Lighting
PERFORMANCE: The Ethernet-controlled LED outdoor lighting/surveillance fixture has a 360-degree imaging camera and communications platform. Flashing lights and audio messaging alert users to detected motion.
PRICE RANGE: $$$
APPLICATIONS: The luminaire works with an existing security network as an add-on or stand-alone unit. It's offered with 30 or 60 LEDs in 3000K, 4000K, or 5000K color temperatures.
SPAULDINGLIGHTING.COM
(SNAP #223)



E/T34000 STOREFRONT FRAMING

MANUFACTURER: Tubelite
PERFORMANCE: This impact-resistant storefront features a 2½-by-5-inch flush-glazed system and screw-spline framing with 1⅝-inch-thick laminated glass at its center. Both thermal and nonthermal models accommodate insulated glass.
PRICE RANGE: $$
APPLICATIONS: Part of the ForceFront Blast line, the system suits low- and mid-rise buildings, comes in a variety of finishes, and may contribute to LEED scoring.
TUBELITEINC.COM
(SNAP #224)

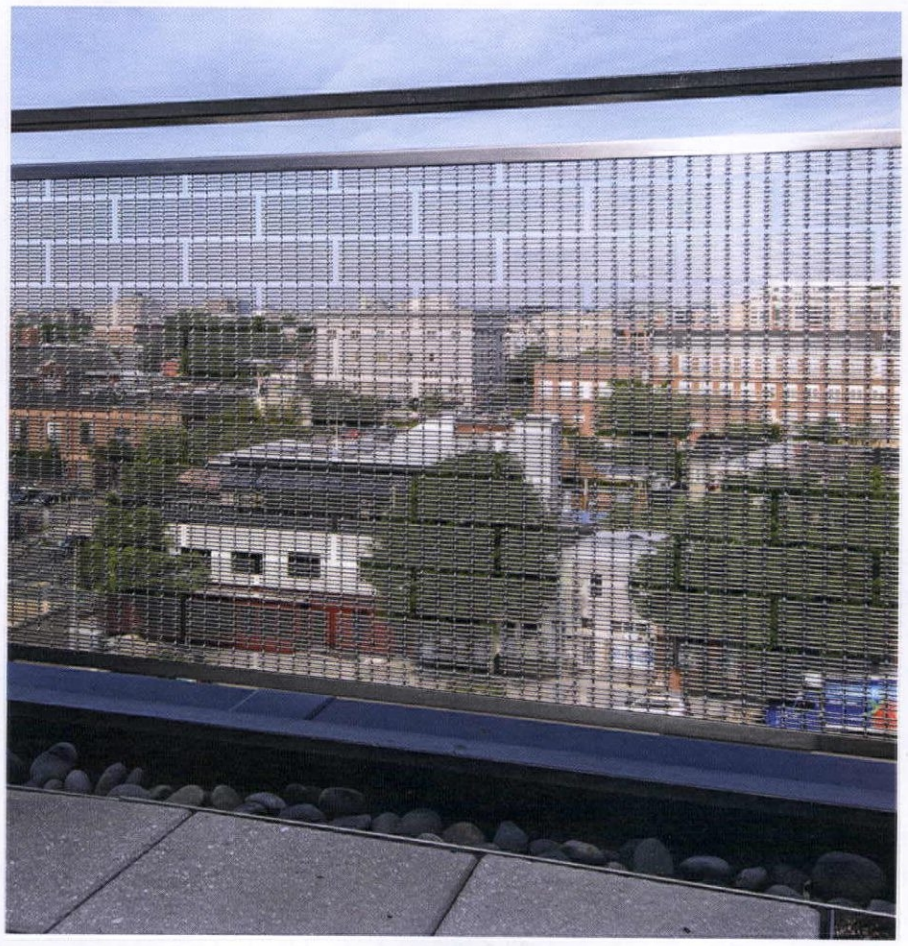
KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

= ECO-FRIENDLY ATTRIBUTES

A Fine Mesh

AVAILABLE IN AN ARRAY of designs, today's metal fabrics aesthetically enhance building interiors and exteriors while protecting against human falls, forced entry, and high winds. These versatile products, which can double as solar screens or sunshades, may contribute LEED points for energy performance or recycled content, says David Zeitlin, national sales manager for **Cambridge Architectural**, a manufacturer of metal woven products.

Selecting an appropriate architectural mesh can be a tricky proposition, however. Zeiltin points out that code requirements for fall protection vary by state and jurisdiction, influencing issues such as mesh openness and minimum loads for stair infill panels. Mounting should also be considered, as should ice loads where applicable. —*AL*



PHOTOGRAPHY: FIELD CONDITION

BUILDING BLOCKS
Available in stainless steel or brass, Cambridge Architectural's Brick pattern adds a decorative element to safety fencing.

SNAP BACK



ERIC DUFEK
Senior Educational Designer and Planner
Eppstein Uhen Architects
Milwaukee

"Schools that don't have monitoring hardware on all their exterior doors surprise me. It's a very inexpensive way to watch over the perimeter, and it allows personnel to better understand where and why doors are being opened."

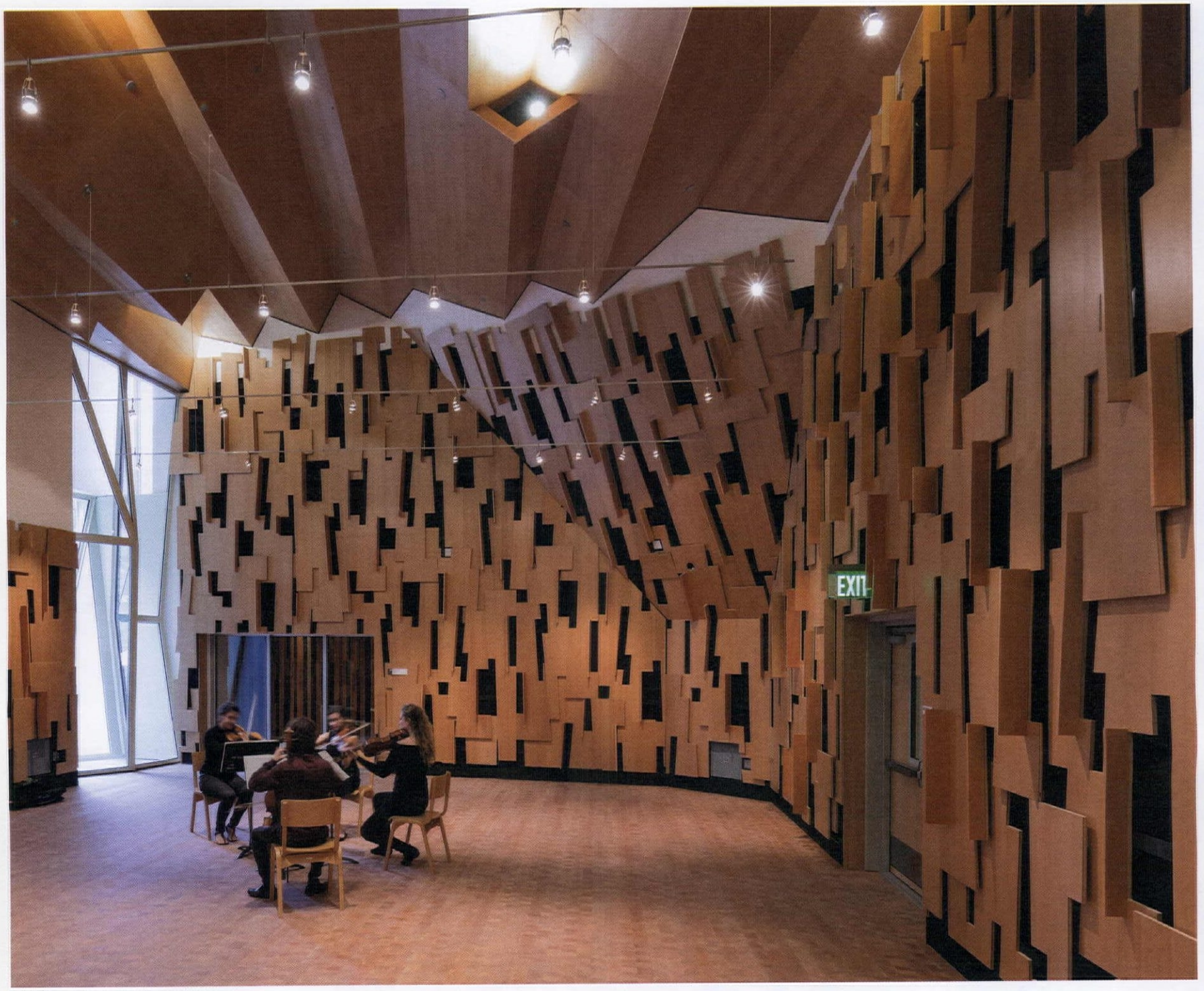
SNAP FACT

In 2014, the advanced glass market—including laminated, coated, and toughened glass—was valued at

$35.76 BILLION.

It is expected to reach **$61.75 billion by 2020.**

SOURCE: ADVANCED MARKET GLASS REPORT BY RESEARCH AND MARKETS



Sound Ideas

KEVIN DALY ARCHITECTS wanted users of the ensemble room—a performance hall, rehearsal area, and teaching space inside UCLA's Evelyn and Mo Ostin Music Center—to feel as if they were inside a musical instrument. So the Santa Monica, California–based firm custom-designed a Douglas fir and spruce baffle around the 1,500-square-foot perimeter, utilizing it as a resonator for the amount of sound absorbed or reflected.

But to "tune" the room to achieve the correct pitches, KDA worked with neighboring company Newson Brown Acoustics LLC to find the right treatments for the walls and reflective drywall ceiling. To absorb lower frequencies, the team thickened in key locations the fiberglass acoustic insulation on the back of the wooden baffle panels, says NBA principal Michael Brown. Then they "carefully manipulated the degree of openness between the wood facing, [as well as] the cavity depth behind the panels" to manage the midrange. Finally, an additional acoustic finish—Eurospan by Conwed Designscape—curbed the higher frequencies and brought the space into harmony. The result, Brown says, "promotes sound that spreads around the room, enveloping the musicians and 'decaying' smoothly." —*Julie Taraska*

MUSIC MAKER
The wooden baffle in the ensemble room at UCLA's Evelyn and Mo Ostin Music Center acts as a resonator, allowing varying amounts and frequencies of sound to be absorbed or reflected.

PHOTOGRAPHY: IWAN BAAN



PLUS ECOUSTIC PANELS

MANUFACTURER: Unika Vaev
PERFORMANCE: This low-VOC acoustic panel and screen collection comes in thicknesses of 0.31, 0.53, 0.98, and 1.97 inches that can absorb, respectively, 30%, 50%, 80%, and 95% of sound when the product is directly affixed to a wall.
PRICE RANGE: $$
APPLICATIONS: Designed by Michael Young, the Plus pattern comes in six colorways and is suitable for office, education, hospitality, retail, and residential interiors.
UNIKAVAEV.COM
(SNAP #225)



ZINTRA ACOUSTIC PANELS

MANUFACTURER: Baresque
PERFORMANCE: Class A fire-rated, these ½-inch-thick polyester panels deliver an NRC of 0.35 to 0.90, depending on installation and distance from the wall. Also available in ⅛-inch rolls.
PRICE RANGE: $
APPLICATIONS: The 110-inch-long sheets are suitable for walls, ceilings, screens, and joint-free floor-to-ceiling installations in hospitality, healthcare, and other commercial interiors.
BARESQUE.US
(SNAP #226)



TONO CHAIR BY HANS THYGE

MANUFACTURER: ICF
PERFORMANCE: Sound-absorbing armchair with a flexible seat shell made from material from recycled PET bottles. The tubular steel base comes in a powder-coated finish or with wood legs in oiled white oak.
PRICE RANGE: $$
APPLICATIONS: Can be used for auditorium seating, or as a guest, small conference, or meeting room chair.
ICFGROUP.COM
(SNAP #227)



SONAR STONE WOOL CEILING PANELS

MANUFACTURER: Rockfon
PERFORMANCE: These Class A fire-rated panels achieve an NRC as high as 0.95, an Articulation Class rating of 190, and a light reflectance of 0.85 LR.
PRICE RANGE: $$$
APPLICATIONS: Suitable for open-plan offices, classrooms, retail shops, and healthcare spaces, as well as multifunctional rooms, corridors, meeting rooms, lobbies, and reception areas.
ROCKFON.COM
(SNAP #228)

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

= ECO-FRIENDLY ATTRIBUTES

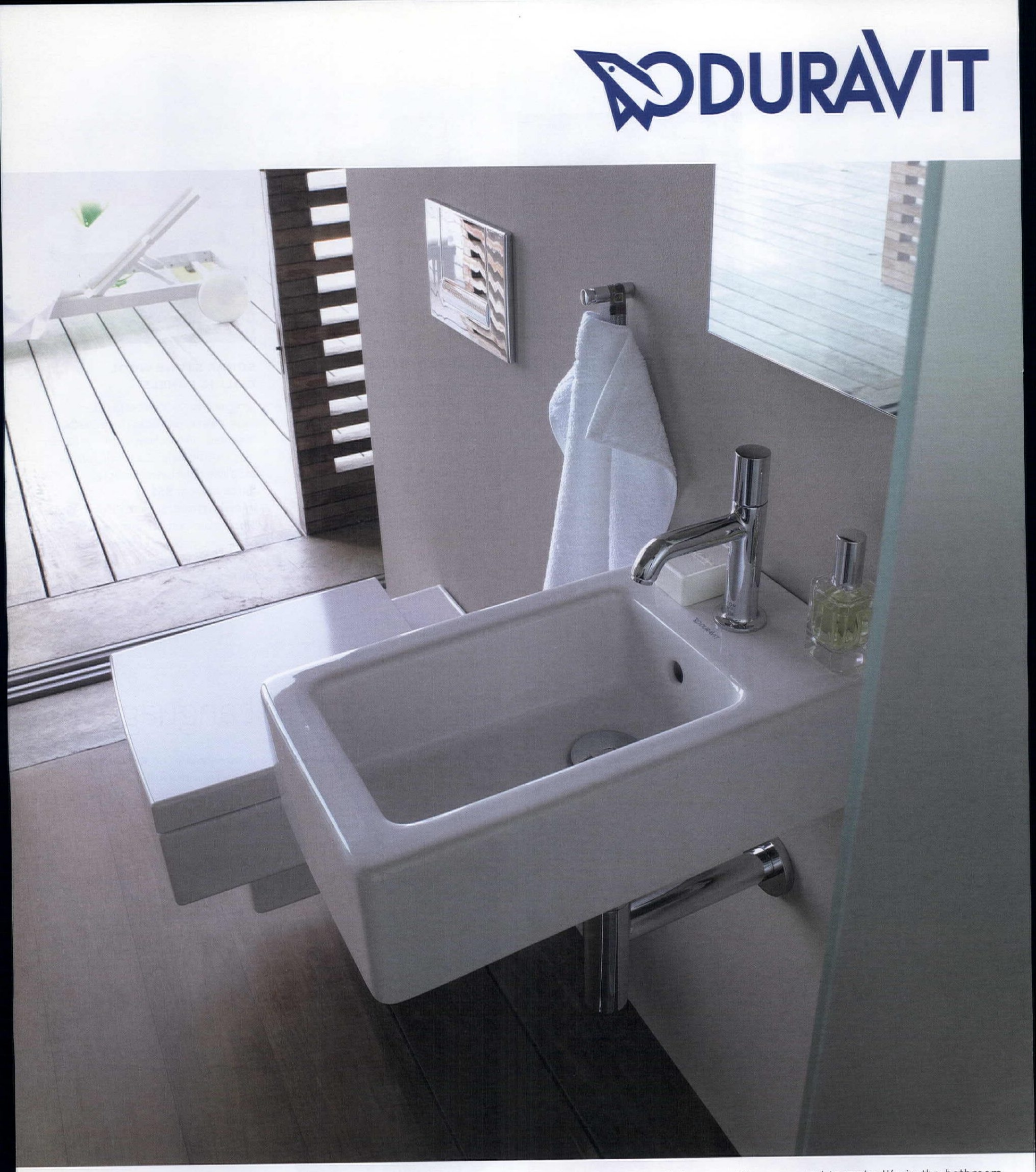


IMPRESS ME
KnollTextile's Impressions acoustic tiles are offered in 16 colors and six contemporary patterns.

Pattern Language

RENOWNED FOR its upholstery and fabric, **KnollTextiles** is entering the architectural market with a wall-mount system of sound-dampening tiles. The Impressions collection is made of 100 percent polyester Pivot panel fabric impressed with heat and pressure onto slabs of ultrathin acoustic substrate. The resulting 12-inch-square tiles are Greenguard-certified and mountable via a Z-clip rail system. Although the collection achieves an overall 0.55 noise reduction coefficient, that's not the whole story, says KnollTextiles marketing director Caroline Ollivier. "With Impressions, we were specifically concerned with controlling noise from people's voices," she explains. So instead of generalized sound relief, the tiles home in on the frequencies of the human voice, decreasing them—and the reverberations they generate—to achieve a 0.77 to 0.93 NRC, adds Olliver. —*JT*

PHOTOGRAPHY: COURTESY OF KNOLLTEXTILES



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SNAP 74



Sealed Up Tight

WHEN WHEELER KEARNS ARCHITECTS won the commission to build Chicago's new Intrinsic charter school, the hometown firm knew all too well the weather conditions the structure would face. So WKA specified Kingspan Benchmark's Designwall 2000 for the building envelope, confident that the product would both withstand the city's legendary winds and satisfy energy code requirements for continuous insulation.

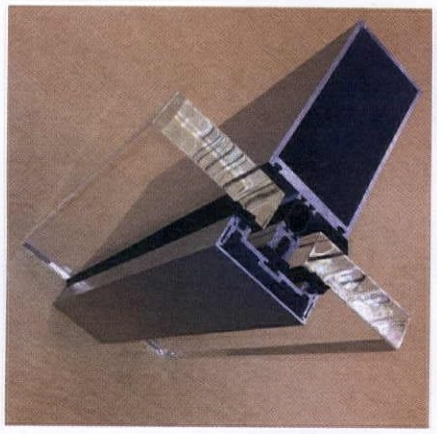
Offering R-values up to 28, the panels feature a core of rigid insulation and a double-gasket joint for protection against air and water infiltration. Because the insulation is located on the structure's exterior, the product shifts the dew point from inside the wall cavity to the outside, reducing the possibility for condensation within the wall—and the attendant mold and mildew.

The modular design of the panels was just as significant as their technical capabilities. "The installation was quick so there were no delays to construction," says project architect Daniel Wicke. *—Nigel F. Maynard*

STEELY PROTECTION
On the exterior of Chicago's Intrinsic charter school, steel Designwall 2000 modular panels maximize thermal efficiency while providing a double barrier against air and water penetration.



PHOTOGRAPHY: GREG FOLKINS



400TU SERIES THERMAL CURTAIN WALL

MANUFACTURER: Tubelite Inc.
PERFORMANCE: Combining aluminum framing, dual thermal strut, and insulated glass, this curtain wall achieves an industry-leading U-factor of 0.30 for thermal transmittance and frame-condensation resistance factor of 81.
PRICE RANGE: $$
APPLICATIONS: Designed for low- and medium-rise commercial buildings.
WWW.TUBELITEINC.COM
(SNAP #229)



ZIP SYSTEM R-SHEATHING

MANUFACTURER: Huber Engineered Woods
PERFORMANCE: This complete system for sealing and insulating the building envelope features an engineered wood base, continuous foam insulation, and air and water barriers.
PRICE RANGE: $$
APPLICATIONS: Designed for exterior applications in single-family and multifamily residential buildings.
WWW.HUBERWOOD.COM
(SNAP #230)



TYVEK THERMAWRAP R5.0

MANUFACTURER: DuPont
PERFORMANCE: This wrap, which provides continuous exterior insulation, offers a Class A flame spread and helps keep air and bulk water out of walls while allowing moisture vapor to escape.
PRICE RANGE: $
APPLICATIONS: Ideal for residential, multifamily, and light commercial buildings.
WWW.DUPONT.COM
(SNAP #231)



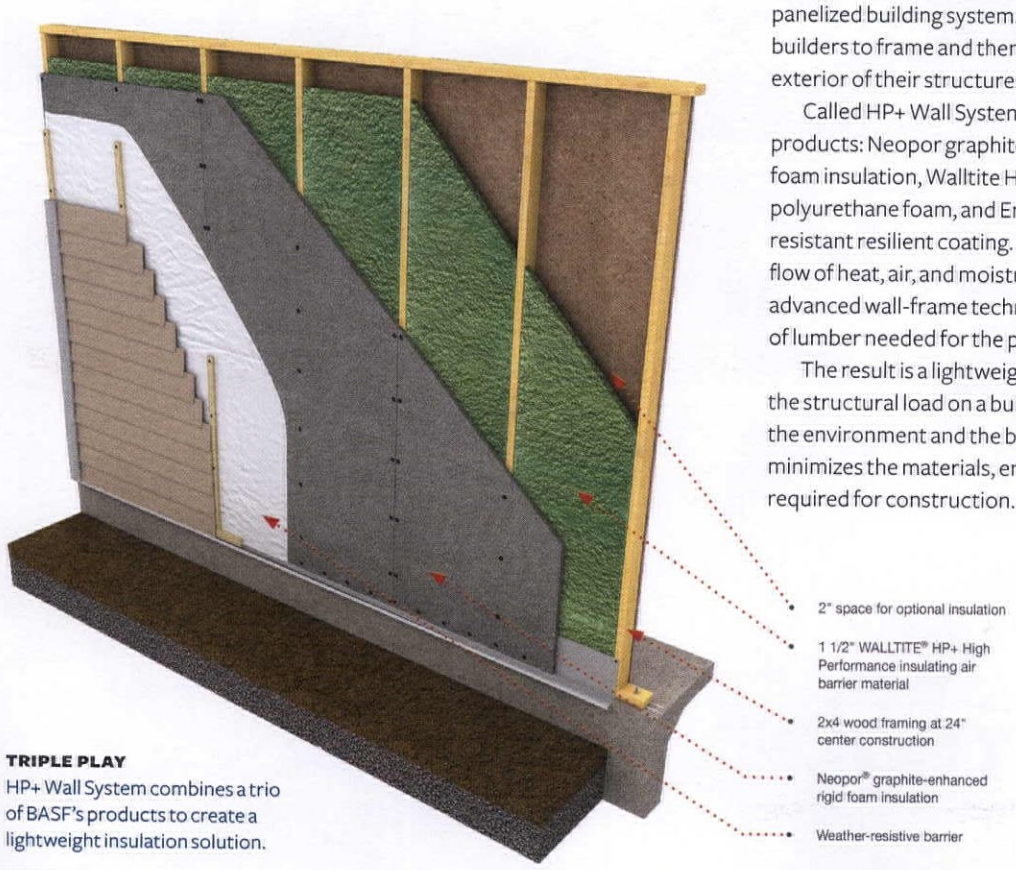
EX 2.5 PANELS

MANUFACTURER: InSoFast
PERFORMANCE: With embedded polypropylene studs that reduce thermal conductivity, these panels feature R-10 insulation and moisture-control channels that promote airflow and drainage.
PRICE RANGE: $$
APPLICATIONS: Intended for the exterior of single-family residential buildings.
WWW.INSOFAST.COM
(SNAP #232)

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

= ECO-FRIENDLY ATTRIBUTES

All-in-One



TRIPLE PLAY
HP+ Wall System combines a trio of BASF's products to create a lightweight insulation solution.

ON A MISSION to make houses lighter and more energy-efficient, **BASF** has developed a one-step panelized building system. It obviates the need for builders to frame and then insulate the interior and exterior of their structures.

Called HP+ Wall System, it combines three BASF products: Neopor graphite-enhanced rigid thermal foam insulation, Walltite HP+ closed-cell spray-applied polyurethane foam, and Enershield air- and water-resistant resilient coating. Aside from controlling the flow of heat, air, and moisture, the product uses advanced wall-frame technology to reduce the amount of lumber needed for the project.

The result is a lightweight solution that decreases the structural load on a building. In turn, this benefits the environment and the builder's bottom line, as it minimizes the materials, energy, labor, and land area required for construction. —*NFM*

PHOTOGRAPHY: COURTESY OF BASF

SNAP BACK



SALO LEVINAS
Principal
Shinberg Levinas Architects
Washington, D.C.

"The way we design building envelopes today is completely different than it was five years ago. Energy codes now require continuous insulation on the exterior face of the outer wall, which has given rise to new systems and products such as rainscreens, all of which are available in a tremendous diversity of materials."

SNAP FACT

Energy consumption for cooling is expected to increase sharply by 2050—by almost

150% GLOBALLY

and by **300% to 600% in developing countries.**

SOURCE: THE NATIONAL CENTER FOR EDUCATION STATISTICS



42 Foot Monorail Cantilever Gate

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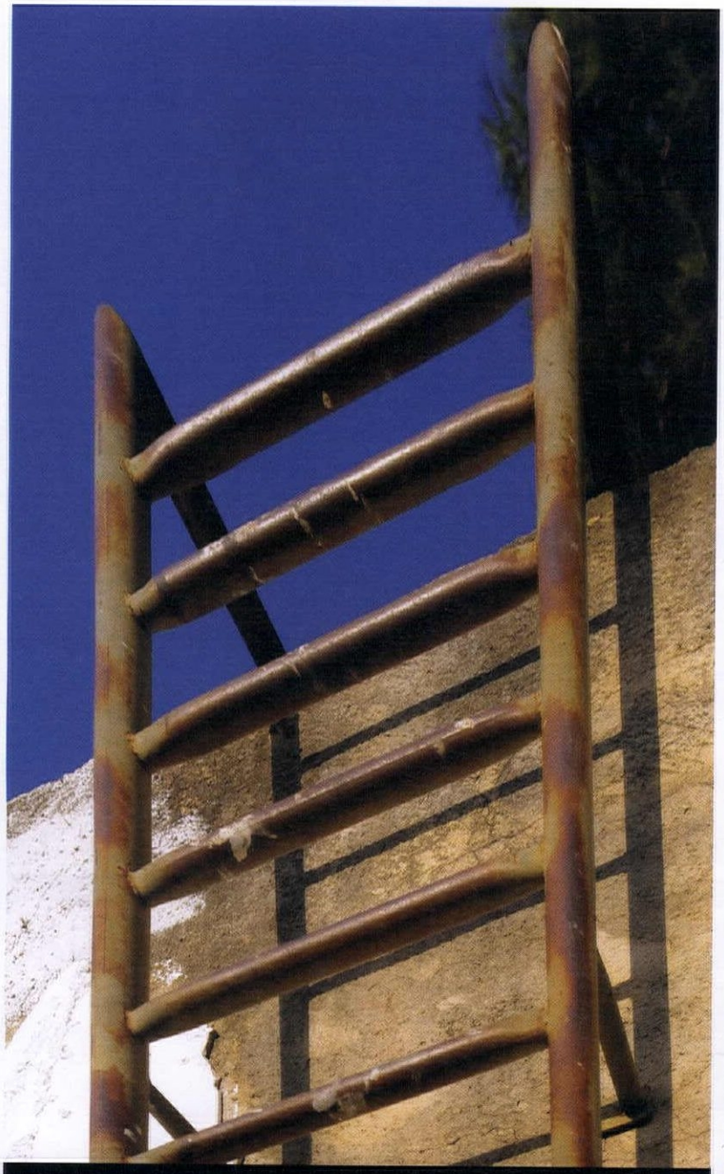
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Looking Up

New England manufacturers finally catch a break. BY J. MICHAEL WELTON



FOR MANUFACTURERS in the country's oldest states, the climb out of the Great Recession has been uneven. But the worst finally seems over.

"The Rhode Island economy has struggled over the past five years, but it's improving," says Sara Ossana, co-owner of **O&G Studio** in Warren, Rhode Island. She and partner Jonathan Glatt opened their furniture studio in 2009, in the depths of the downturn. "We figured that if we could survive that, we could survive anything," Ossana says. And they were right. Sales have doubled every year since the launch.

Changing its business model helped Warwick, Rhode Island–based **Custom Built Window and Door Systems** exit the slump. "For a long time, we manufactured direct to contractors, with a little retail on the side," says general manager Johnny Gardner. "But as wholesale distribution fell off, our direct-to-customer business picked up." Overall, Custom Built's business has increased 30 to 35 percent over last year's total.

Recession wasn't a problem for **Excel Dryer** in East Longmeadow, Massachusetts, which has been on a double-digit sales tear for a dozen years, according to William Gagnon, vice president for marketing. Its Xlerator hand dryer proved to be near bulletproof in the downturn. "It reduces costs, labor, maintenance, and waste, allowing you to manage a facility more efficiently," he says of the machine. "The recession almost *led* people to our solution."

And at the headquarters of **Walpole Outdoors,** located in Walpole, Massachusetts, purchasing manager Bob Coyne reports that the company now manufactures in Pittsfield, Maine. "I've found a good pool of people up there who will stay with us for life," he says, noting the move has enhanced the company's bottom line. "Each of the last four years has gotten incrementally better," Coyne adds.

It sure has been a long time coming.

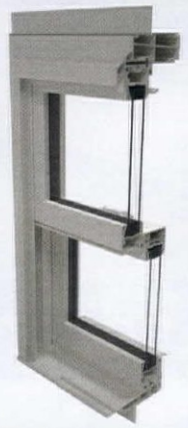
Connecticut, Maine, Massachusetts, and Rhode Island



1 **MANUFACTURER:** Excel Dryer
LOCATION: East Longmeadow, Massachusetts
PRODUCTS: High-efficiency hand dryers.
FOUNDED: 1963
EMPLOYEES: 48
PRICE RANGE: $–$$
EXCELDRYER.COM



2 **MANUFACTURER:** East Coast Lightning Equipment
LOCATION: Winsted, Connecticut
PRODUCTS: Lightning protection system components.
FOUNDED: 1985 **EMPLOYEES:** 30
PRICE RANGE: $$ **ECLE.BIZ**



3 **MANUFACTURER:** Custom Built Window and Door Systems
LOCATION: Warwick, Rhode Island
PRODUCTS: Vinyl replacement and new-construction windows, aluminum storm windows, entry and storm doors, and porch and glass shower/tub enclosures.
FOUNDED: 1961
EMPLOYEES: 45
PRICE RANGE: $$
CUSTOMBUILTRI.COM

4 **MANUFACTURER:** Morin, a Kingspan Group Company
LOCATION: Bristol, Connecticut
PRODUCTS: Single-skin (or single-element) metal wall and roof panels.
FOUNDED: Mid-1950s **EMPLOYEES:** 20
PRICE RANGE: $$–$$$ **MORINCORP.COM**





5 **MANUFACTURER:** O&G Studio
LOCATION: Warren, Rhode Island
PRODUCTS: Handmade chairs, settees, tables, and accessories.
FOUNDED: 2009 **EMPLOYEES:** 16
PRICE RANGE: $$ **OANDGSTUDIO.COM**



6 **MANUFACTURER:** Runtal North America
LOCATION: Ward Hill, Massachusetts
PRODUCTS: Decorative radiators for hot water, steam, and electric heating systems.
FOUNDED: 1955 in Switzerland; manufacturing in the United States since 1987
EMPLOYEES: 97 **PRICE RANGE:** $$–$$$
RUNTALNORTHAMERICA.COM



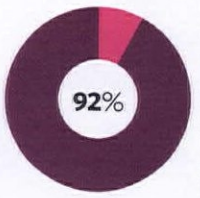
7 **MANUFACTURER:** Wasco Products
LOCATION: Wells, Maine
PRODUCTS: Energy-efficient skylights, translucent walls, and canopy systems.
FOUNDED: 1935 **EMPLOYEES:** 120
PRICE RANGE: $$–$$$ WASCOSKYLIGHTS.COM

8 **MANUFACTURER:** Walpole Outdoors
LOCATION: Headquarters in Walpole, Massachusetts; manufacturing plant in Pittsfield, Maine
PRODUCTS: Fence, pergolas, garden products, and outdoor structures and furniture.
FOUNDED: 1933
EMPLOYEES: 250
PRICE RANGE: $–$$$
WALPOLEWOODWORKERS.COM



SNAPSHOTS

CONNECTICUT



Manufacturing accounts for over **92%** of the state's exports. Goods include transportation equipment, industrial machinery, fabricated metal, electronic equipment, chemicals, and food products.

Connecticut's 5,000 manufacturers employ nearly **170,000 people** and generate more than **12.7 percent** of the state's GDP.

SOURCE: CONNSTEP, CONNECTICUT BUSINESS AND INDUSTRY ASSOCIATION

MAINE



In 2014, **one out of every 20 jobs** in Maine was associated with forestry, such as logging and manufacturing of paper and wood products.

In the same year, turning and milling accounted for **2,000 jobs** in Maine, paying an average annual wage of **$30,000**.

SOURCE: MANUFACTURERS ASSOCIATION OF MAINE

MASSACHUSETTS

Last year, Massachusetts exported **$25.75 billion** in manufactured goods.

In 2014, **248,300 state residents** worked in the manufacturing sector.

The average annual compensation for the state's manufacturing jobs in 2013:

$93,862

SOURCES: NATIONAL ASSOCIATION OF MANUFACTURERS

RHODE ISLAND



The state is now home to **1,765 manufacturers**, which employ 59,092 workers.

Rhode Island experienced a **2.78 percent growth rate** in manufacturing jobs in 2013, the ninth-largest increase in the nation.

SOURCE: MANUFACTURING RHODE ISLAND

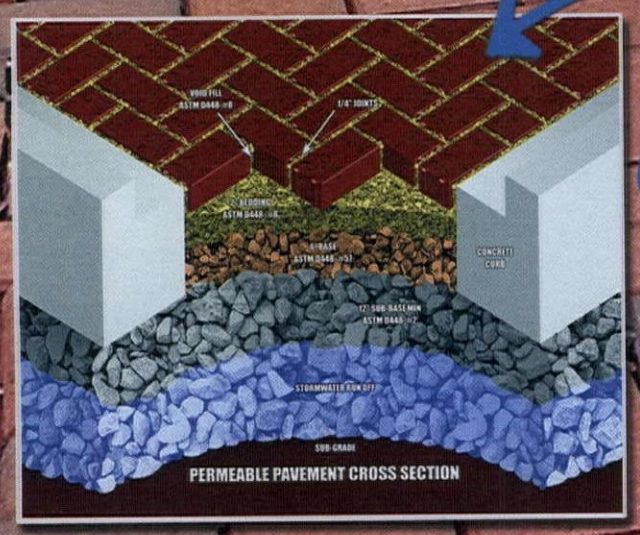
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OVERVIEW **PAGE 51**
Architects are integrating sustainability in new ways.

Q&A **PAGE 53**
A "molecular architect" explains green chemistry.

CASE STUDIES **PAGE 54**
>UEA's Enterprise Centre
>Mountain Equipment Co-op

PRODUCTS **PAGE 64**
The latest in recycled building materials.

EARTHWATCH **PAGE 68**
Two French designers pay homage to Thoreau.

GreenSource
THE MAGAZINE OF SUSTAINABLE DESIGN

The Aesthetics of Sustainability



bnp media

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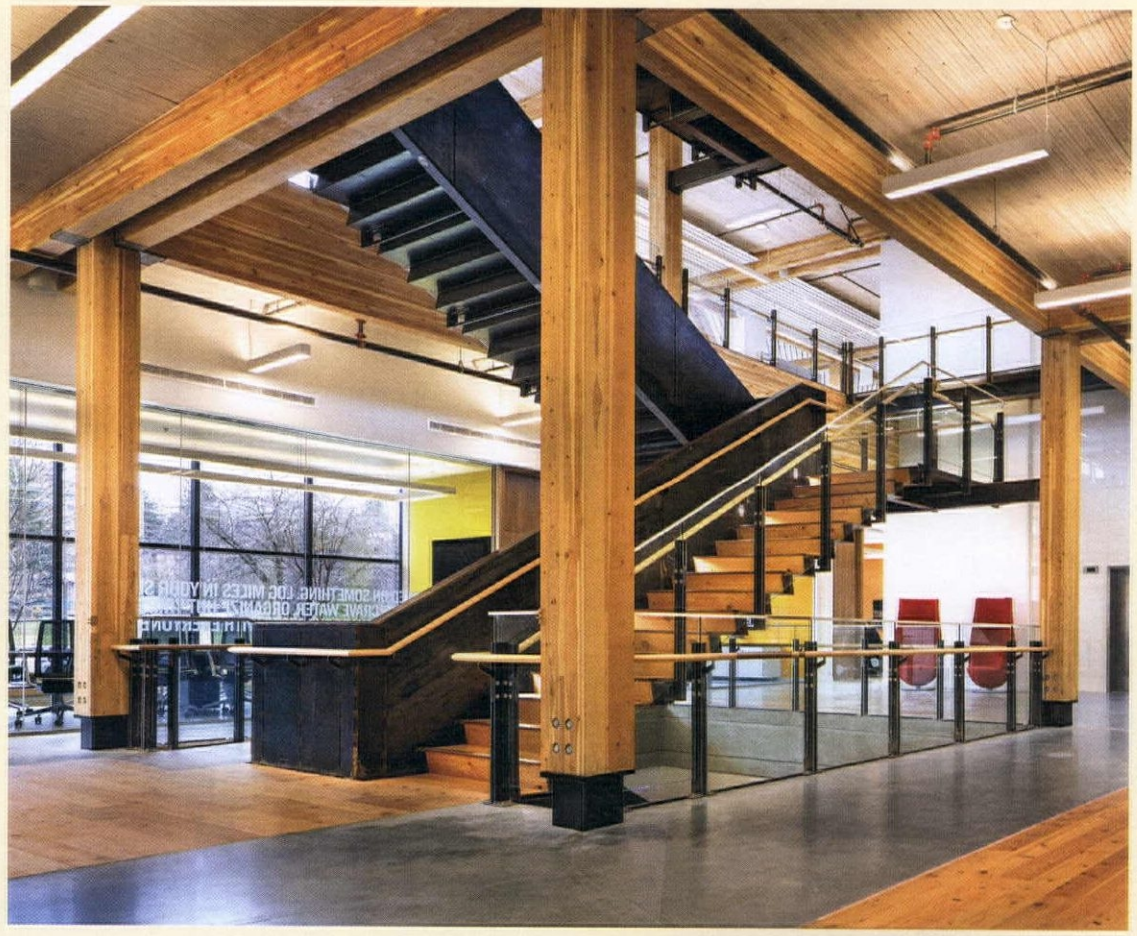
Pittsburg State Univ. - Bicknell Family Center for the Arts - Pittsburg, KS
Architect of Record: ACI BOLAND ARCHITECTS
Design Architect: WILLIAM RAWN ASSOCIATES, Architects, Inc.

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IN THIS ISSUE

Imagination and Innovation

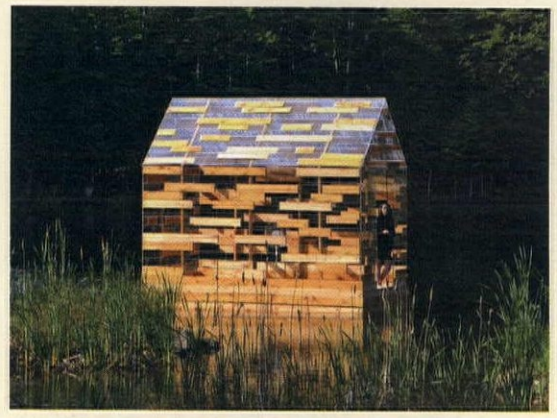
Designing and constructing sustainable buildings is easier than ever. Government mandates, public support, streamlined and integrated construction practices, greener materials, innovations in recycling and upcycling, indicate that sustainability is the new norm. As a result, the boastful superlatives of green design—greenest factory in the Western Hemisphere, greenest skyscraper west of the Mississippi—now elicit a quieter buzz. The case studies in this issue suggest a shift from checklist sustainability, which is often independent of architectural design, to an architectonic sustainability in which design and construction are driven by each site's unique genius loci.

At the Enterprise Centre (p.54) at the University of East Anglia in Norwich, England, London-based Architype Architects and a team of collaborators delivered a building with a carbon footprint light enough to achieve BREEAM Outstanding and Passivhaus certification. But they went further still. The design team took the unusual step of resurrecting the ancient building tradition of thatching. This craft, while not extinct, is no longer a standard building practice. The entire envelope and much of the interiors are clad in thatched panels, assembled by master thatchers in the area. By reinventing the process to meet modern standards, the team reached beyond data collecting for certification to promote one of the world's oldest carbon-negative materials.

The new Vancouver, British Columbia, headquarters of the Mountain Equipment Co-op (p.58), designed by locally based Proscenium Architecture + Interiors, exemplifies the rewards of measured risk-taking. Rather than specifying cast-in-place concrete—the default system for commercial buildings in Vancouver today— the design team revived technologies used to construct warehouses and other buildings a century ago. By creating a heavy-timber structural system and exposing the glulam post-and-beam and nail-laminated timber framing, Proscenium gave the building a rustic integrity that links to the local vernacular.

In this issue's Q&A, John Warner, co-founder of the Institute of Green Chemistry and coauthor of *Green Chemistry: Theory and Practice*, explains his work researching and developing chemicals that are safe for health and the environment. Environmental chemistry examines the impact of hazardous materials on various systems; green chemistry focuses on the invention of technologies that have no negative impact in the first place.

EarthWatch discovers French designers Elise Morin and Florent Albinet's tribute to Henry David Thoreau's primitive cabin in the woods. Their cabin floats on a raft, which visitors experienced on the Lac de Gayme in Picherande, in France's Auvergne region. Though far across the pond from Walden Pond, the artists say their creation sits at the very same latitude. GS



Both the Enterprise Centre in Norwich, England (top left), and the Mountain Equipment Co-op in Vancouver, British Columbia (top right), used historic building techniques to recall the pasts of their respective regions. The Walden Raft (above), a reinterpretation of Thoreau's cabin on Walden Pond, also harks back to an earlier time.

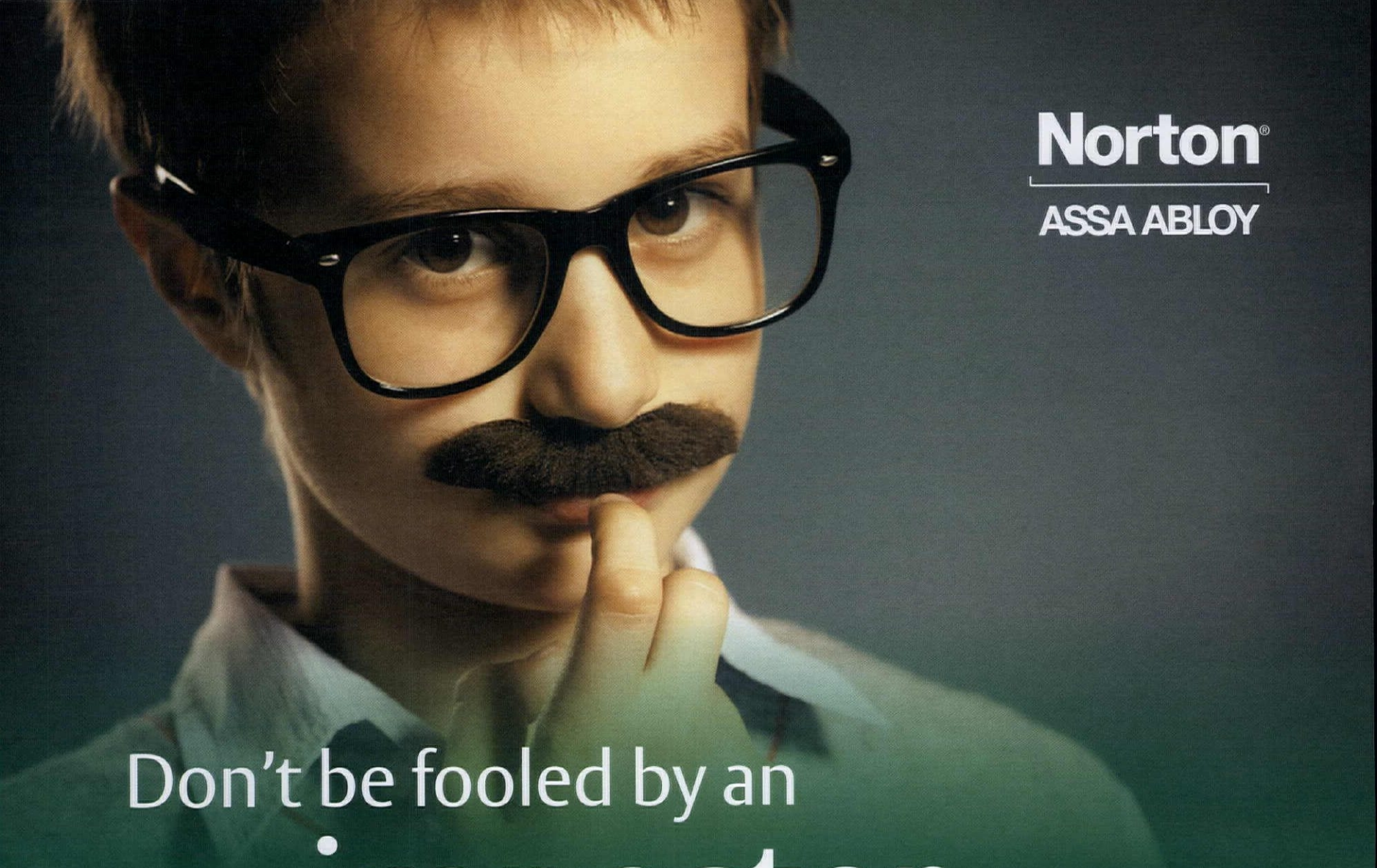
MORE ONLINE

See more sustainable design features on **architecturalrecord.com**. For the *GreenSource* magazine archives, go to **greensourcemag.com**.

BY SARA HART

DARREN CARTER (TOP LEFT); ED WHITE PHOTOGRAPHICS (TOP RIGHT); ELISE MORIN (RIGHT)

Inside cover illustration by ADAM McCAULEY / DUTCH UNCLE



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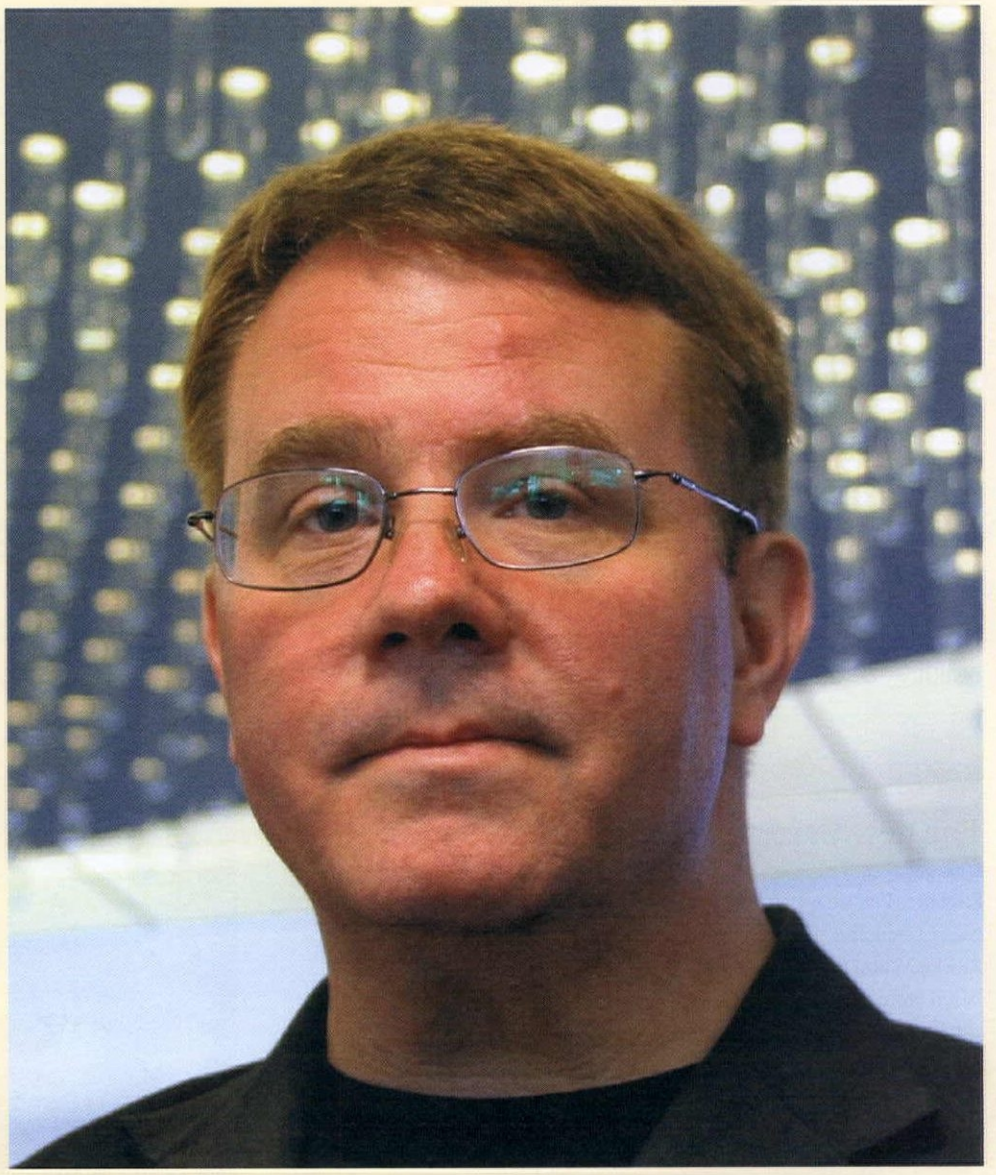
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Q&A

Catalyst for Change

John Warner likes to introduce himself at parties as a molecular architect. However, he is more widely known for his work on the development of materials that are safe for humans and the environment and as one of the founders of the discipline of green chemistry. He is the author, with Paul Anastas, of *Green Chemistry: Theory and Practice*, and founder, with Jim Babcock, of the Warner-Babcock Institute for Green Chemistry. His recent research has focused on fields as diverse as semiconductor design, biodegradable plastics, personal care products, and solar energy.

BY JOANN GONCHAR, AIA



GREENSOURCE: Can you explain what green chemistry is? Is it different from environmental chemistry?

JOHN WARNER: Environmental chemistry looks at the impact of dangerous or hazardous materials on various systems. But green chemistry focuses on the invention of things without molecules that have nasty impacts. It's not the study of the impacts—it's the creation of the alternative technologies that don't have them in the first place.

You've long advocated for making the study of toxicology part of chemistry education. Why is this important? The people inventing the materials have no coursework in toxicology. If you don't know what makes a molecule toxic, how will you make one that isn't toxic? If you don't know what makes a molecule cause ozone depletion, how do you make one that doesn't cause it? Green chemists are trying to change the traditional chemistry curriculum and insert this very important component.

Are the products used in buildings more harmful or toxic than consumer products? I don't know if I would say they're more harmful or less harmful. They definitely have negative impacts. Everything we do will always have an impact on human health and the environment. Breathing, even dying, has an impact. So what we'd better do is focus on being greener. Can we be better tomorrow than we are today? Can we be better next year than we are this year? It is a process of continuous improvement.

Is having a so-called red list–a list of dangerous chemicals to avoid–the best approach to creating healthy buildings? These types of lists are necessary, but let me give you an analogy. Let's say you had three golfers and you wanted to assess their game. You have them all drive and then measure how far and straight they drove. You put the information in a spreadsheet. Then you could say, "Well, this is the best and this is the next best." But I would argue it would not help improve how they play; it just tells you where they are now. To become better golfers, they may need to change the way they hold their clubs, or how they square their shoulders, or where they position their feet: things that don't go so easily on a spreadsheet. So yes, we need scorecards, we need red lists. But make no mistake, they don't have anything to do with improvement. It's a way of measuring what we're doing today. Just saying "Don't use these molecules" doesn't tell you what to use. That's where green chemistry comes in.

Can you discuss the relationship between the building products you've developed and products for other sectors? One of the things that we've come up with is an asphalt technology that allows the use of large amounts of recycled pavement at lower processing temperatures. We also have an Alzheimer's drug. Someone might say, "Wow, that's ridiculous: Alzheimer's and asphalt. Why would one person be working on both?" But the mechanism of Alzheimer's that we're chasing is organic polymers that wrap around inorganic particles. We came up with a molecule that separates the organic polymer from the particle. What is asphalt? It's an organic polymer wrapped around an inorganic particle. We've invented a molecule that helps control the interaction between the polymers and the inorganic particles. So while from the outside, asphalt and Alzheimer's look very different, there is surprising similarity at the molecular level. The molecule doesn't know if it's in paint, in asphalt, or in something else. People get so hung up on the applications, they lose sight of the beauty of working at the molecular level—that's where invention truly happens. GS

> "Just saying 'Don't use these molecules' doesn't tell you what to use. That's where green chemistry comes in."
>
> JOHN WARNER
> *President, Warner-Babcock Institute for Green Chemistry*

CASE STUDY 01

Back to the Future

Architype designs a state-of-the-art incubator for startups and entrepreneurs firmly grounded in the building traditions of rural England.

BY SARA HART

The new Enterprise Centre is a gateway building to the University of East Anglia, a public research institution in Norwich, England. The Adapt Low Carbon Group developed the center so UEA could create the UK's greenest commercial building with the highest BREEAM and Passivhaus standards. Adapt worked with the London-based architecture firm Architype and construction and infrastructure consultant Morgan Sindall to ensure the goals were met. Materials were sourced, fabricated, tested, and implemented as close to the site as possible, with the balance procured elsewhere in the UK.

"From our perspective, this was the perfect brief with the perfect client," says project architect James Todd. "The project enabled us to take our long-standing interest in the provenance and lifecycle impact of materials and combine this with our understanding of low-energy Passivhaus design." The design team went to great lengths to uncover low-carbon materials, including recycled steel and reclaimed subbase insulation. Cement for the concrete was replaced with ground granulated blast-furnace slag (GGBS), a sustainable by-product of the steel industry that improves the concrete's durability. The slab is supported by an inert insulation, creating a robust thermal envelope, a requirement for Passivhaus accreditation.

"On this project, the UEA wanted to push the boundaries further, so while the brief targeted Passivhaus energy standards and BREEAM Outstanding," explains Todd, "it also called for the prioritization and celebration of locally sourced, bio-based, rapidly renewable materials." Determined to support the East Anglian timber industry, the design team spent two years working to secure local timber whenever possible. The timber frame is made with 70 percent Corsican pine from nearby Thetford Forest; the remaining timber, Sitka spruce, was procured elsewhere in the British Isles. Larch timber—used for the glulam columns, which form the center's dramatic entrance—was also from Suffolk forests, achieving the center's goal of celebrating regional history.

The team then took the idea of bold materiality to another level, choosing thatch for the exterior cladding. Thatch has been a common building material in rural areas of Great Britain for a millennium. It's lightweight, portable, and renewable. The concept of cladding the building with thatch developed early, inspired by its traditional use in the area surrounding East Anglia and the availability of suitable local reed and wheat straw varieties. Thatching is still a craft in rural



DENNIS GILBERT/VIEW

The building is clad with prefabricated thatch panels to celebrate the region's building heritage. The thatch is made with locally sourced reed and straw. The spruce-plywood panels connect seamlessly via angled scarf joints.



TEAM

Architect Architype

Client University of East Anglia & the Adapt Low Carbon Group

Structural engineer BDP

M&E consultant BDP

Main contractor Morgan Sindall

SOURCES

Slab Insulation Isoquick

Main glulam frame Kaufmann

Larch glulams Inwood

OSB3 boards Smartply

Roof sheathing Timbervent by Egger

Wall sheathing Sarket by Hunton

Thatch cladding developed by John Innes

External-grade MDF cladding Medite Tricoya

Wood-wool acoustic boards Troldtekt

England, albeit one mostly limited to restoration of centuries-old cottages. "Prefabricating the thatch off-site in panels enabled a number of independent thatching teams to work in their own barns across the region," says Todd, "with the additional economic advantage of extending the working season through the winter months."

The contractor and master thatcher produced and tested a number of prototypes prior to the final installation. To minimize waste, they based the width of the panel on the standard width of spruce plywood backing board. An angled thatch "scarf" joint allows the top panel to fit seamlessly with the panel below. The sides of the panels are also angled to push the thatch outward, allowing the material to interleave and conceal the vertical joint as the panels were slid together along the support battens.

The east-facing courtyard is a mixed palette of sustainable products. Besides the thatch and the larch glulams, the facades bear locally sourced flint shingles. The south-facing rainscreen was reserved for material experimentation. Clad in external-grade MDF, a cost-effective and low-carbon alternative to other finishes, the board will be monitored for durability. The interior finishes meet Passivhaus requirements and include a number of well-established, nontoxic finishes. The timber-slat ceiling makes use of low-grade softwood in its natural state and is acoustically insulated with wood-wool fiberboard.

"The building demonstrates the joy of letting natural materials, in their raw state, speak for themselves," says Todd. "The response of the initial users is very positive in terms of the overall effect the building's quality has had on their sense of well-being and productivity." Through a program of monitoring and post-occupancy evaluation, he adds, "we are hoping to demonstrate this empirically with the university."

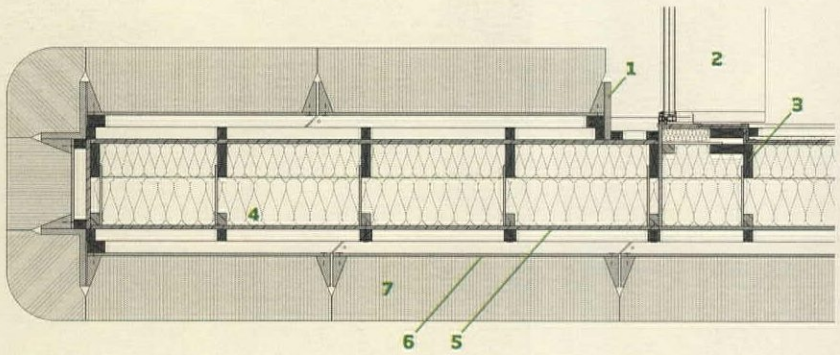
By working closely with a BREEAM consultant, the architects have set the project on track to achieve both a BREEAM Outstanding rating and Passivhaus certification. GS

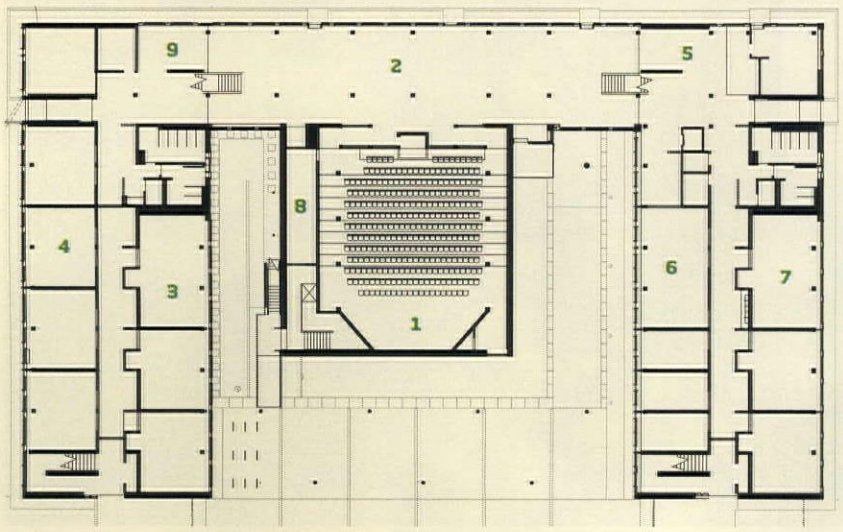


Thatch surfaces designate special interior spaces. The timber used for the ceiling slats is an unfinished, low-grade softwood; the structure is local Corsican pine and Sitka spruce. Timber for the glulam columns was locally sourced.

WALL DETAIL

1 Cladding panel, external-grade MDF with Osmo UV and biocide finish
2 Anodized aluminum, triple-glazed, timber composite window
3 Timber studwork
4 Blown recycled newspaper insulation
5 Timber wall sheathing
6 Spruce plywood
7 Local straw for facade cassettes applied by local thatchers





FLOOR PLAN

1 Lecture theater
2 Exhibition
3 Lecture/seminar
4 Adaptable seminar
5 Café
6 Student enterprise
7 Hatchery
8 Gallery
9 Social work



A master thatcher assembles a panel off-site.

HENRIETTA WILLIAMS (TOP); DENNIS GILBERT/VIEW (BOTTOM)



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CASE STUDY 02

Modern Vernacular

A Vancouver retailer showcases its broad approach to environmental conservation, community enrichment, and employee well-being.

BY SARA HART

Mountain Equipment Co-op is Canada's leading outdoor retailer, operating as a consumer cooperative. It sells recreation gear and clothing exclusively to co-op members, who purchase a lifetime membership for a mere five dollars. MEC boasts over four million members and sales of $300 million annually and operates 18 stores in 16 provinces.

By 2008, the company realized it was rapidly outgrowing its current 47,000-square-foot headquarters in a warehouse in Vancouver, British Columbia. Working with Proscenium Architecture + Interiors, the local firm that converted the former auto-parts building into the company headquarters, MEC submitted a proposal to rezone an area in the city's southeast for the company to build a 112,000-square-foot, LEED Platinum facility. Vancouver, striving to become the world's greenest city by 2020, agreed to the rezoning.

MEC made a commitment to environmental sustainability in manufacturing and building from the beginning. This pledge carries over to its 400 employees. "Every design decision addressed the comfort and well-being of MEC's workers," explains Hugh Cochlin, principal at Proscenium. A design emerged for a three-story building with two narrow, intersecting wings, oriented to optimize daylight and natural ventilation. An open floor plan and high ceilings facilitate the use of natural ventilation. Closed offices and meeting rooms occupy the interior of the floor plates. "We created a three-story atrium with a 'feature' stair where the two wings intersect. That openness has made it a gathering place for employees," explains Cochlin. "We also placed the lunchroom on the roof, giving employees access to outdoor seating among the fruit trees and plots for growing vegetables."

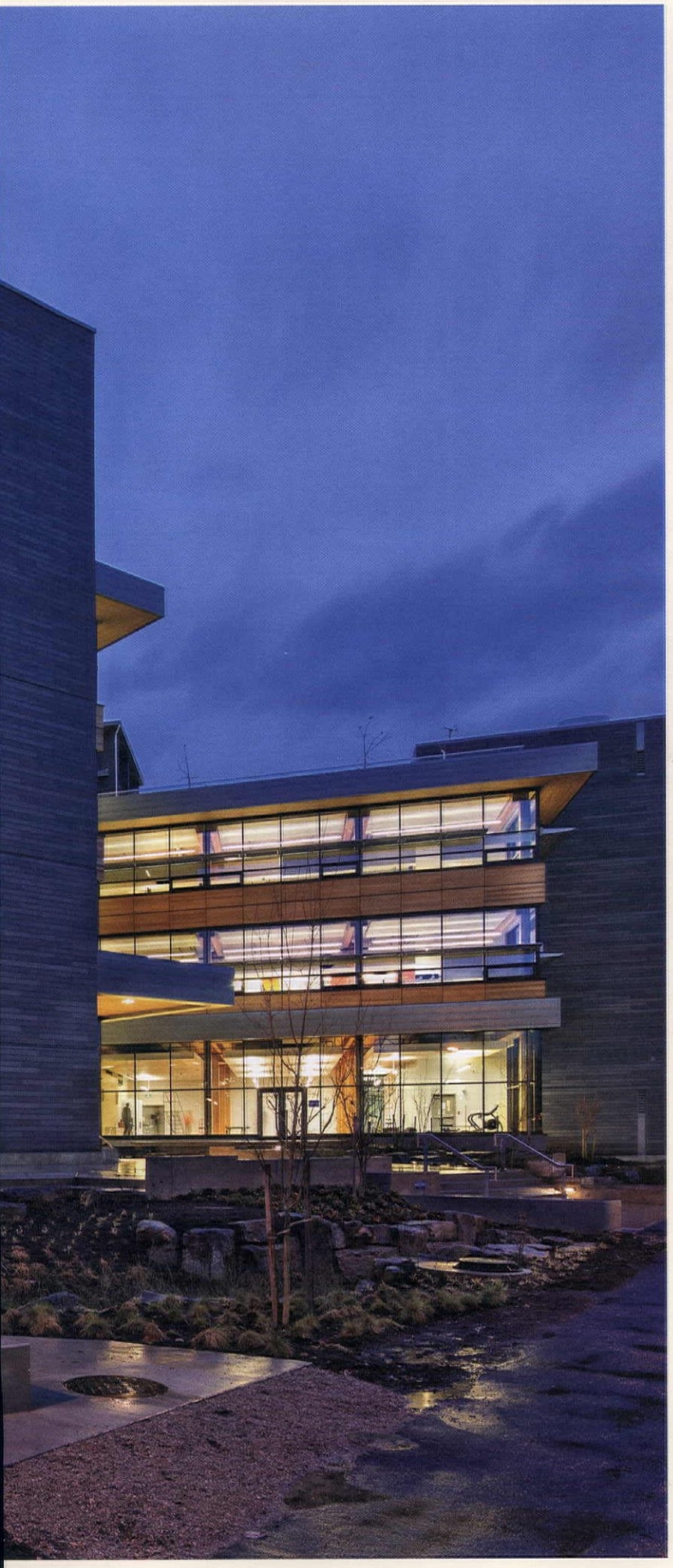
Three passive/hybrid wind towers—also know as ventilation shafts—are located within the building's envelope. The towers act as both fresh-air intakes and exhaust chimneys. Fresh air is drawn down to the mechanical room in the basement, where it is conditioned using heat drawn from a geothermal field. Fresh air is circulated at each floor through floor plenums. Stale air is collected at the ceilings and drawn down through a duct into heat-recovery ventilators. Effectiveness requires a high-performance building envelope and solar devices. This was achieved by using 12-inch structural-insulated panels faced on both sides with oriented strand board. Triple-glazed windows with operable blinds eliminate glare and reduce heat gain.

From the outset, the architects explored different structural systems. Fast + Epp, the structural engineers, investigated the pros and cons of concrete, steel-frame, and wood systems. Finally the design team settled



ED WHITE PHOTOGRAPHICS

In the False Creek Flats neighborhood of Vancouver, MEC's new headquarters is sited in a bike- and pedestrian-friendly block across from a public park. Landscaping around the building wings (below left) and the rooftop gardens (below right) are made up of drought and water-tolerant plants, situated in and around a series of rain gardens. Logs, boulders, and boardwalks relate to the site's ecological history. Millwork screens (bottom right) define the ground-floor corridors.







TEAM

Architect Proscenium Architecture + Interiors

Engineers
Fast + Epp (structural)
Pageau Morel (M/E)
Kerr Wood Leidal (civil)
Golder (environmental)

General contractor
Ventana

SOURCES

Glue-laminated timber Structurlam

Nail-laminated timber Brenta Group in association with Seagate Structures, built by Alliance Truss

Glazing Cardinal Industries

Composite cedar panels Silva Panel

Green roof Soprema

Structural insulated panels Insulspan

Structural Steel Al Industries

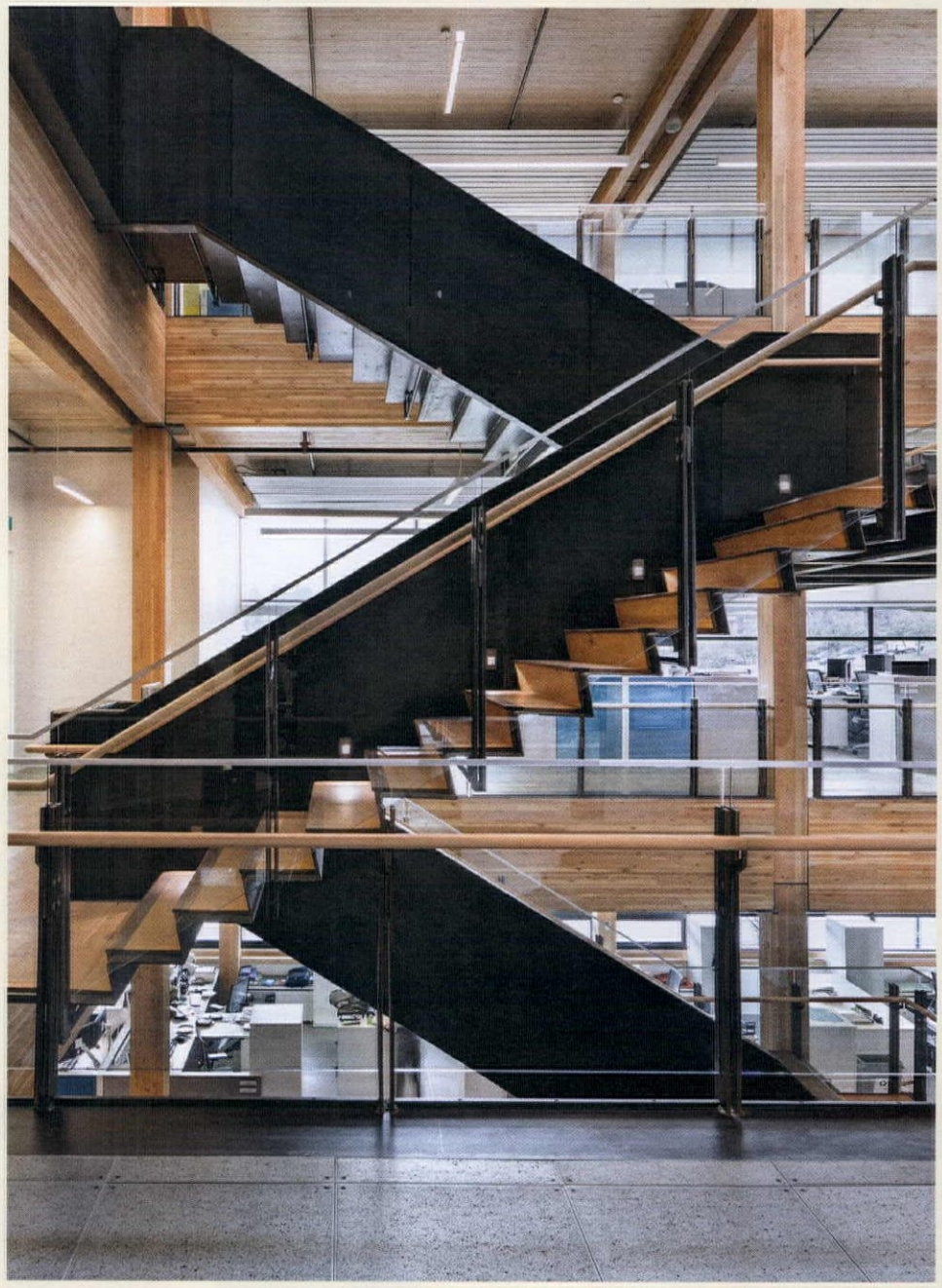
on a post-and-beam timber system. Wood has always been the material preferred by the client because it's sustainable and offers the kind of vernacular character MEC seeks in all its buildings.

British Columbia has 136 million acres of certified forests. Reforestation maintains the natural diversity of species, maximizing the habitat and resilience. Reforestation also optimizes carbon sequestration by ensuring there are substantial numbers of trees in the most vigorous stage of their growth cycle at all times. In all, 84,545 cubic feet of lumber and sheathing were used in the construction. As wood stores carbon dioxide, this volume allowed the client to avoid greenhouse gas emissions of nearly 3,700 metric tons, according to the Canadian Wood Council formula. Apparently, this is equivalent to taking 1,030 cars off the road for one year or, put another way, this approximates the energy needed to operate a home for 458 years.

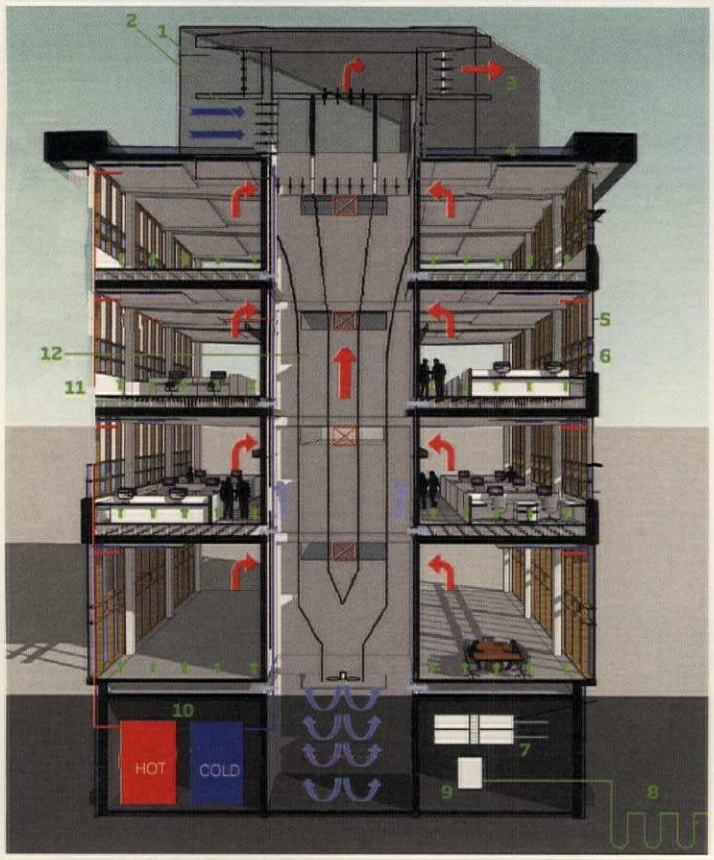
These kinds of equations are impressive and often used for dramatic effect. What's more impressive but less dramatic is the historical significance of the new headquarters' deliberate tie to Canada's past. In the 19th and early 20th centuries, a significant proportion of the country's commercial buildings were post-and-beam timber construction. Floors of solid, nail-laminated, dimension lumber and non-loadbearing cladding were common. "That's the way beams were made in the past— 2x10 boards, nailed together," says Cochlin. "They have the rustic look we wanted."

Two of MEC's retail stores, in Burlington and North Vancouver, have earned recognition: LEED certification for innovation and a Canadian Green Building Award, respectively. Both employed heavy timber construction. The MEC headquarters has one feature that sets it apart from other LEED Platinum projects. The design team detailed the framing to be demountable, which means the current or future owners will have the option of disassembling the building and moving it to another location. GS

A four-story stair tower creates a busy atrium connecting the two wings of the headquarters.

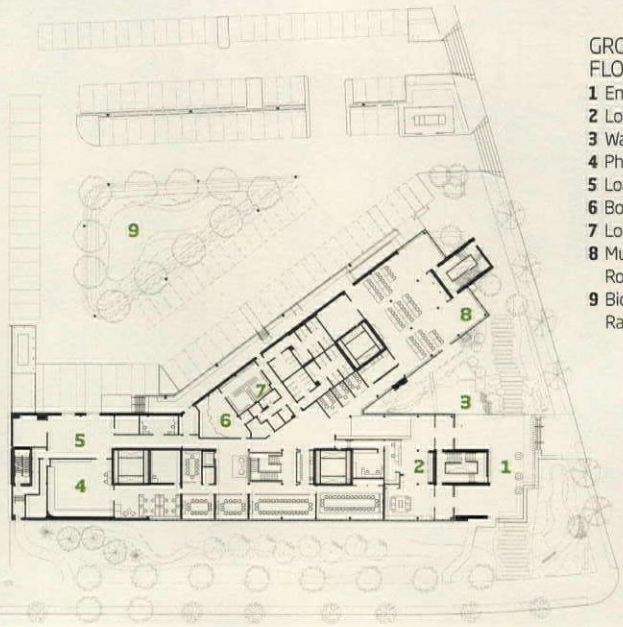


Natural Hybrid Ventilation/Thermal Recovery Systems and Environmental Features



NATURAL HYBRID VENTILATION FEATURES

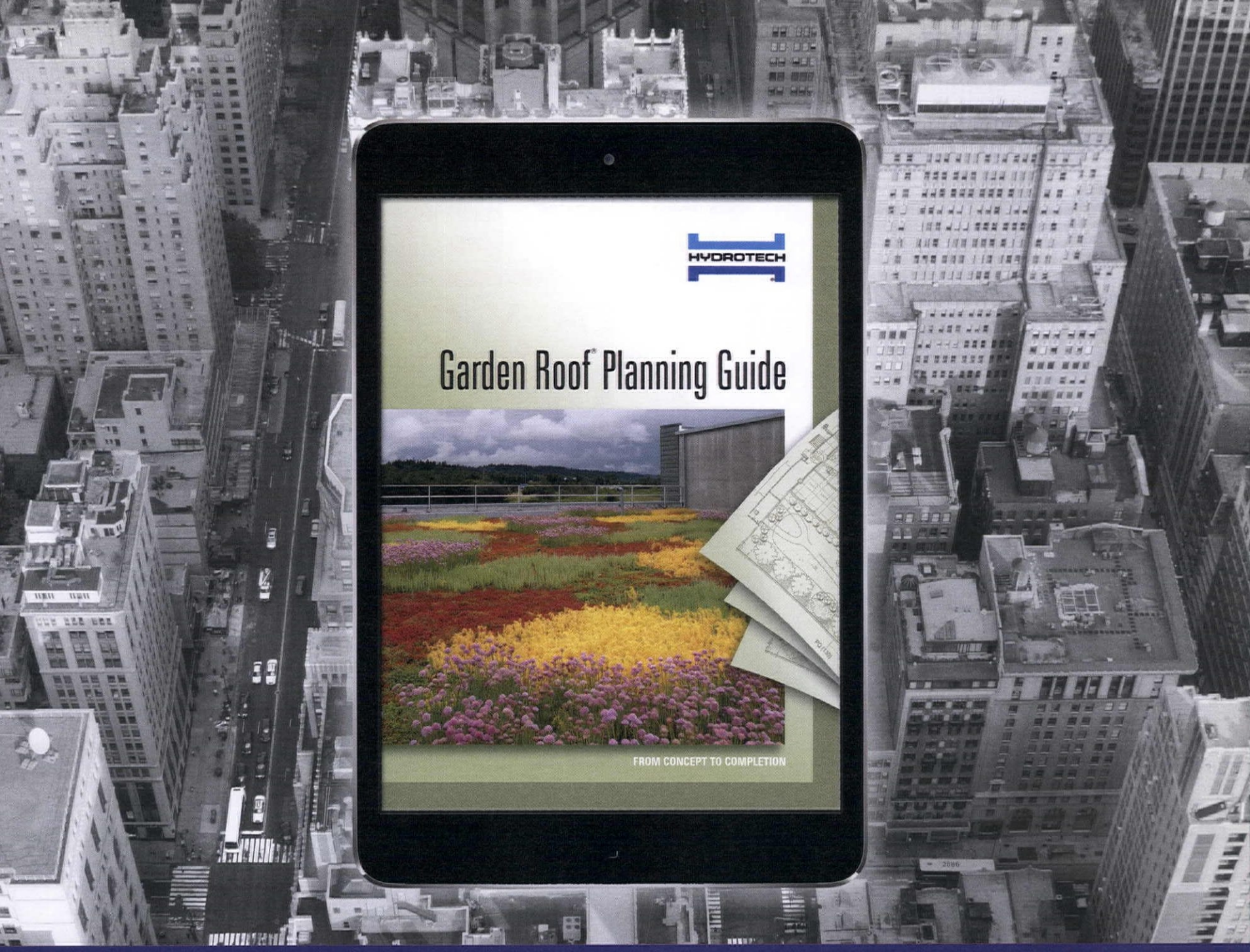
1 Wind Scoop
2 Prevailing Winds (assisted fresh air intake)
3 Exhaust Air
4 Super Insulated Envelope
5 Daylighting Glazing
6 Fiberglass Frame Vision Glazing
7 Ventilation Thermal Recovery Wheel
8 Heat Pumps
9 Geothermal Borehole Field
10 Thermal Water Storage Banks
11 Raised Floor Supply Air
12 Ceiling Return Air



GROUND FLOOR PLAN

1 Entry Plaza
2 Lobby
3 Water Feature
4 Photo Studio
5 Loading
6 Bouldering
7 Lockers
8 Multipurpose Room
9 Biofiltration Rain Garden

ED WHITE PHOTOGRAPHICS (TOP); PROSCENIUM ARCHITECTS (BOTTOM LEFT & RIGHT)



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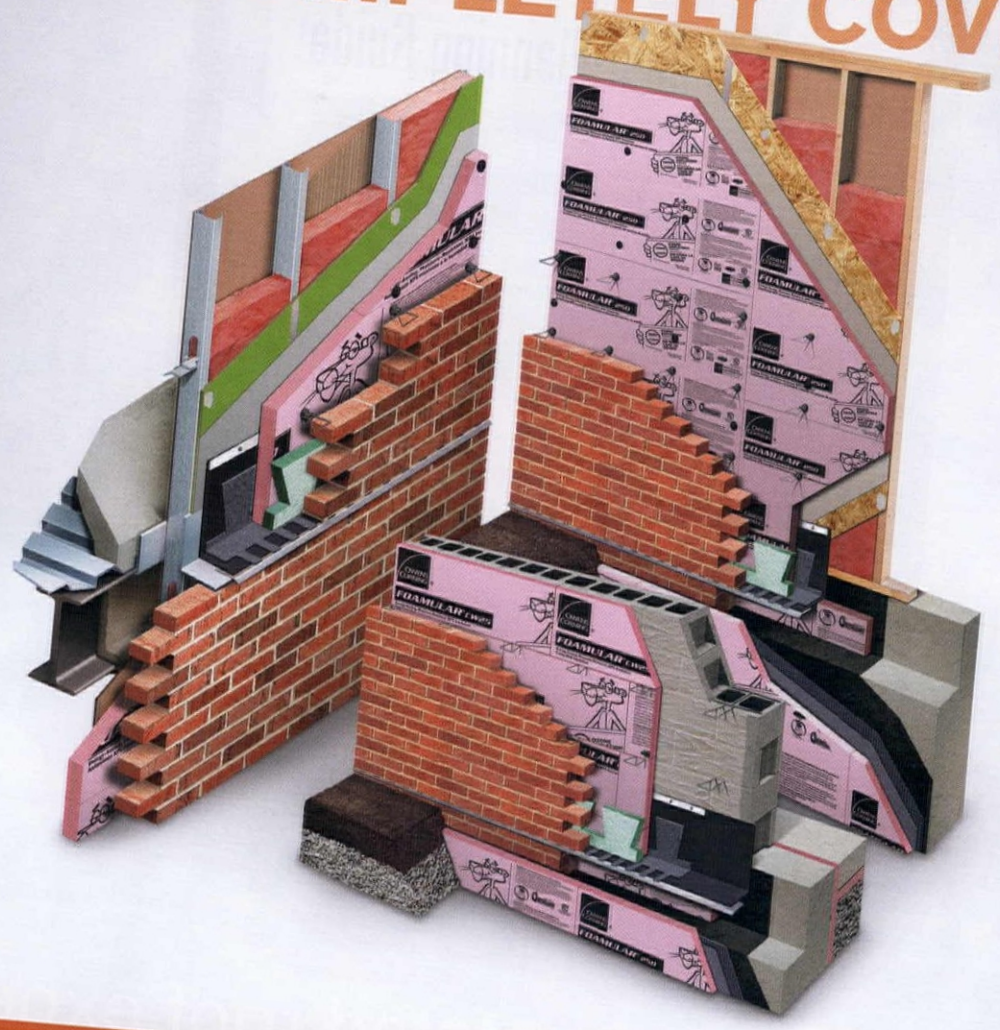
SNAP 61

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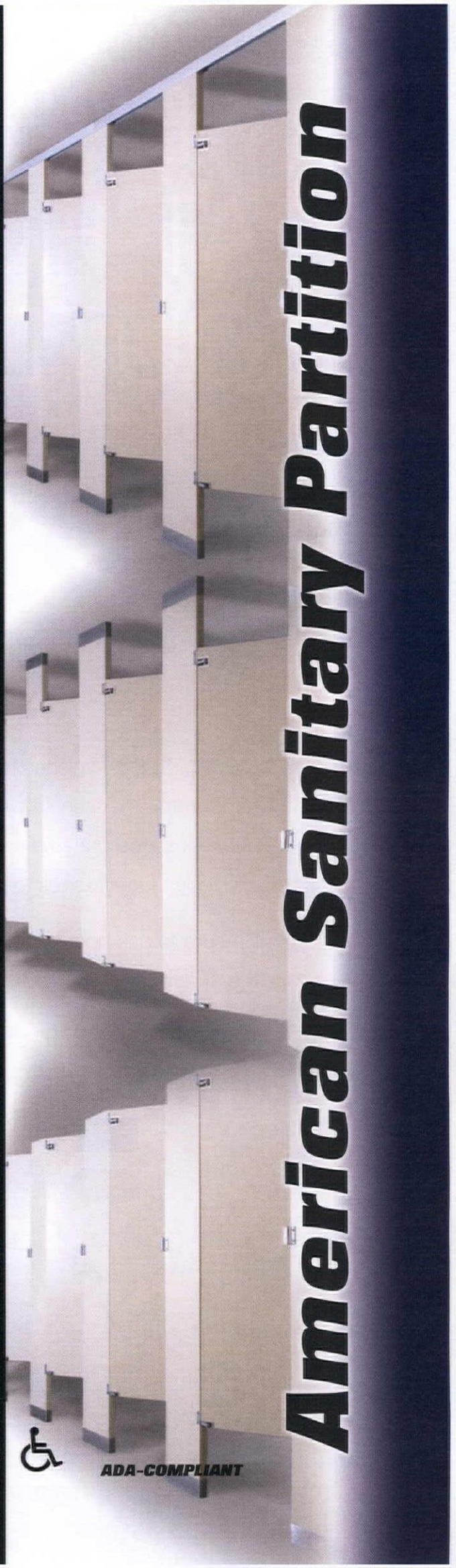
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PRODUCTS

For in-depth information about these products, circle item numbers on the Reader Service Card.


2


3


4


1

1 Carolina Reclaimed Wood Flooring

Whole Log Lumber
Zirconia, NC
wholeloglumber.com

All styles and species of these artisan-engineered, custom reclaimed, Carolina-made floors are available by custom order. They can also be specified in a thicker 1/4" engineered wear layer, as well as the average 1/8" thickness. Material availability and particular specifications may require lead times of 10 to 12 weeks or more, and minimum quantities of 1,000 square feet are required.

SNAP #233

2 Plastinova Wood Substitute

Plastinova
Guadalajara, Jalisco, Mexico

Plastinova is using agave bagasse, a by-product of the tequila-making process, to make a wood-like material. First, the bagasse must be reduced to its fiber, which requires removing alcohol, sugar, and the nonfibrous parts of the plant. Then it is dried and ground into a powder, stabilizing compounds are added, and the dust is mixed with recycled plastic and formed into sheets.

SNAP #234

3 Polly Planks

PollyProducts
Mulliken, MI
pollyproducts.com

Polly Planks are manufactured using 100% recycled plastic. Color is molded throughout so the planks never need paint or sealing. Polly Planks can be fabricated using normal woodworking tools and fasteners and are durable and easy to work with. Polly Planks are waterproof and resistant to almost all chemicals. Applications include potting benches, raised gardens, workbenches, and picnic tables.

SNAP #235

4 NovaCork Panels

Homasote
West Trenton, NJ
homasote.com

NovaCork panels are ultratackable interior panels that are completely finished and require no surface treatment. The top layer is a sheet of cork laminated to a 440 SoundBarrier. The panels are noise-deadening and insulating when used to clad peripheral walls or ceilings. For a professional finish, apply high-quality millwork or extruded aluminum trim and joint molding.

SNAP #236

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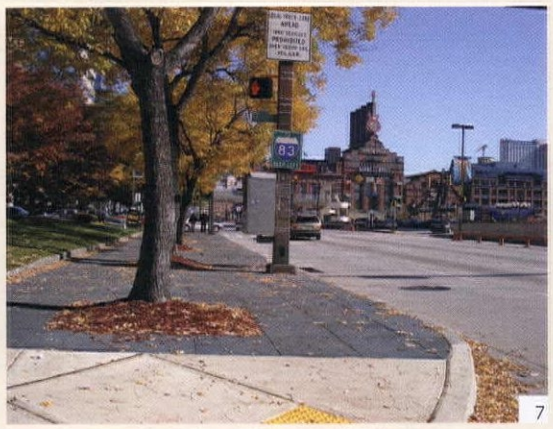
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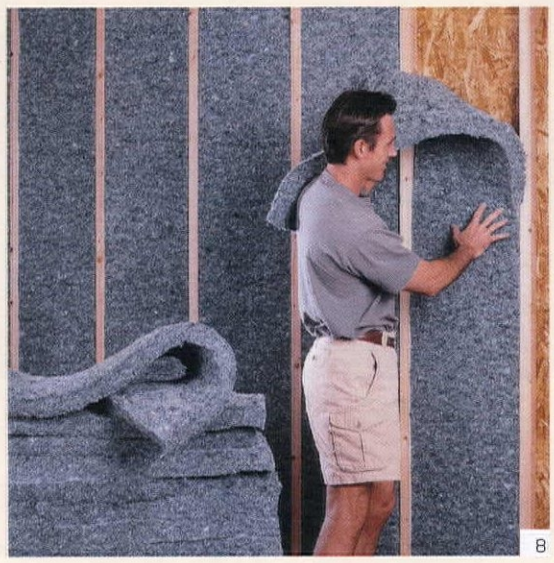
PRODUCTS

For in-depth information about these products, circle item numbers on the Reader Service Card.


5


6


7


8



9


10

5 HempStone

Original Green Distribution
Prescott, WI
originalgreendistribution.com

Original Green Distribution's HempStone is a fire-resistant wall component produced from hempcrete. Made by combining the woody interior of the *Cannabis sativa* plant with lime and water, hempcrete offers airtight insulation while remaining breathable. It is free from toxins, impervious to mold and pests, and virtually fireproof. Because the material is grown rather than manufactured, many say it is opening new doors in the realm of green building.

SNAP #237

6 Basalt Fiber MiniBars

ReforceTech
Luftveien, Norway
reforcetech.com

Nonmetallic and non-corroding, and with considerably lower-density and higher-tensile strength than steel, this concrete reinforcement is made from basalt fiber composite. Engineered in a helix shape, ReforceTech's MiniBars can be cut to varying lengths depending on the concrete grade in use and is easily integrated into facade and sandwich paneling.

SNAP #238

7 Rubbersidewalks Paving System

Terrecon
Fountain Valley, CA
terrecon.com

Invasive tree roots often damage conventional concrete sidewalks. Terrecon's modular interconnected paving tiles, called Rubbersidewalks, seek to prevent this damage. Made from recycled California tire rubber combined with polyurethane binder and colorant, the 2' x 2 1/2' durable tiles meet all requirements for sidewalk construction, including stable grade, nonvibration, and high coefficient of friction for nonskid surfaces, both dry and wet.

SNAP #239

8 UltraTouch Insulation

Bonded Logic
Chandler, AZ
bondedlogic.com

Bonded Logic's UltraTouch insulation is made from natural cotton fibers and postindustrial recycled denim, saturated with a boron-based fire retardant. UltraTouch has a high noise reduction coefficient and meets the highest ASTM testing standards for fire and smoke ratings, fungi resistance, and corrosiveness.

SNAP #240

9 BluBloc Styrofoam Blocks

Blubloc
Portland, Oregon
blubloc.com

BluBloc offers a twist on standard ICF products. Made of 85% recycled polystyrene foam (Styrofoam) and 15% Portland cement, BluBloc is a hollow grid-based wall block element used for exterior walls. Like other ICF products, the "blocks" interlock to form walls. Cement is then poured into the forms, creating a solid and interconnected building structure.

SNAP #241

10 NCC Foam

Melodea Ltd.
Rehovot, Israel
melodea.eu

As part of an endeavor to produce foams from renewable resources, Melodea is extracting nanocrystalline cellulose (NCC) from paper mill waste and turning it into porous foam. Capitalizing on NCC's self-assembly properties–it is the primary building block for many plants–the company is manufacturing a product comparable to fossil fuel–based foams. The foams are cross-linked with biopolymers to form rigid panels for insulation and rigid cores for sandwich composites.

SNAP #242

WALDEN RAFT, photo courtesy of ELISE MORIN



EARTHWATCH

In 1845, Henry David Thoreau called it quits at his dad's pencil factory and fled to Walden Pond in Concord, Massachusetts, where he cobbled together a small cabin in the woods and embarked upon a historic experiment in solitude. "There is some of the same fitness in a man's building his own house," he wrote, "that there is in a bird's building its own nest." But what if that so-called house happened to be a semitransparent wood-and-acrylic glass fortress that also moonlighted as a wholly navigable raft?

That's the question artists Elise Morin and Florent Albinet set out to answer with Walden Raft, a structure designed to blur our perceptions of wilderness, as it exists in a dreamlike limbo neither public nor entirely private. Fantastic but not entirely otherworldly, it's the archetypal cabin in the woods built purposefully awry, to stunning effect. "I admire Thoreau, the force and consistency of his metaphysical and theological thought," says the Paris-based Morin of her inspiration for the piece, which was first installed at the Lac de Gayme in France and later transferred to lakes in Bratislava and Kosice, Slovakia. "Thoreau has been one of my role models for years now, and I devour his philosophy, poetry, and politics. Few people in France know about him, so the exhibition is a chance for them to discover his ideologies."

In order to move Walden Raft, Morin explains, you have to be ensconced in the cabin, turning a large wheel built for that purpose. This strings the raft/cabin along a cable that stretches from shore to an anchor in the depths of the lake. Sending the cabin down a river is surprisingly easy, especially considering it weighs in at 5,511 pounds. Morin notes, "The visitor's participatory movement reinforces the underlying message of Thoreau's work: 'The nonhuman environment is evoked as an entirely separate actor and not only as a frame for human experience.'"

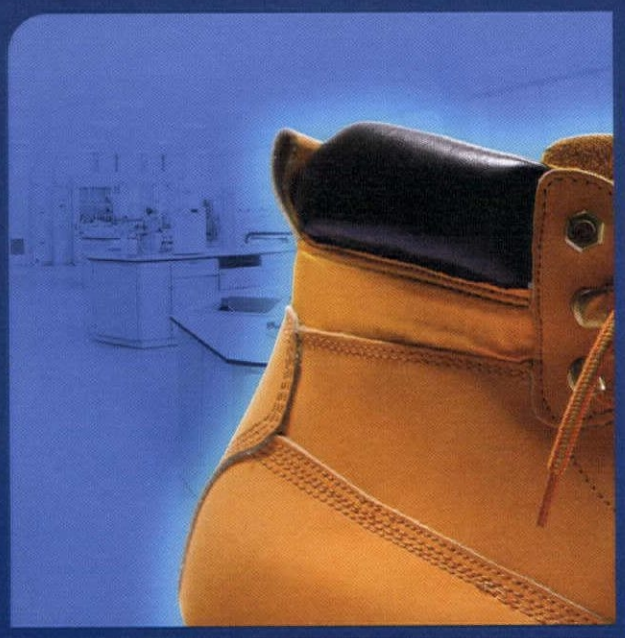
Walden Raft has now played home to thousands of visitors since it launched on June 13. "I really appreciated the afternoon when four teenage girls decided to stay for an hour," Morin says. "They each lay on the floor while Walden Raft drifted off the bank, clearly trying to frame the clouds overhead through the transparent slats in the cabin ceiling. They didn't care that people were able to see them; they were totally lacking in self-consciousness, overflowing with youthful spontaneity and the joy of life." GS

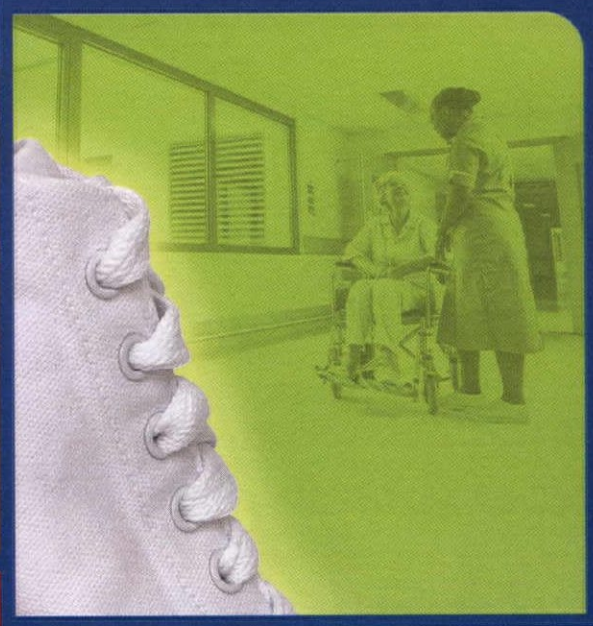
BY DEREK DE KOFF

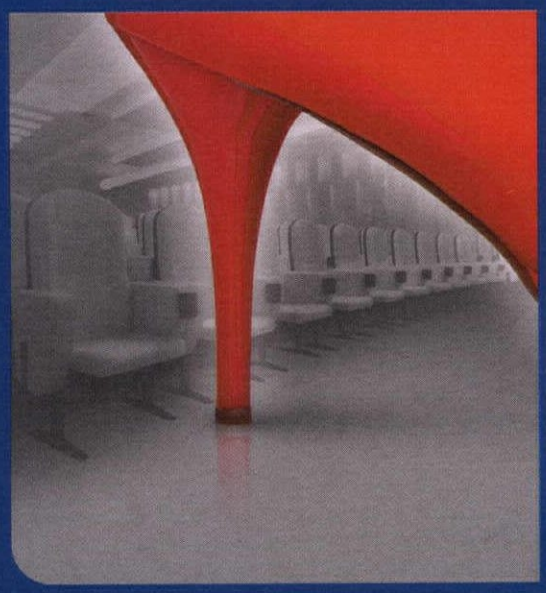
CRITICAL POINT



LAC DE GAYME
Picherande, France
Visitors can find peace on Walden Raft, a gliding cabin that was first installed in Central France before moving to other lakes.









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SNAP 52

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SNAP 45

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PAREX®

The Picture of Health

A new certification system for buildings places the occupant at the center of sustainable design.

BY JOANN GONCHAR, AIA



PHOTOGRAPHY: © BRUCE DAMONTE

BREATHING ROOM At the San Francisco offices of Fahr LLC, Mark Horton Architecture and Leddy Maytum Stacy Architects addressed WELL's requirements for biophilic elements by placing epiphytes, which grow without soil, on the walls.

A BUILDING CAN PROMOTE the well-being of its occupants in a variety of ways—just ask any architect. Some will say it should be free of toxic chemicals. Others might argue that the design should discourage occupants from being too sedentary. Still others will maintain that a building must foster ways for its users to be productive and happy. Now a new certification program called WELL is available. This set of health-centered guidelines could help architects and other professionals define more precisely the relationship between wellness and the built environment.

No doubt there are design teams and clients who question the need for another rating system or an additional plaque to hang on the wall. But advocates maintain that even though LEED provides credits for attributes like daylighting and good indoor air quality, WELL is a complementary system that responds to a distinct set of problems. "It deals with issues that LEED tackles only obliquely," says Bill Browning, founding partner of research and consulting firm Terrapin Bright Green. "LEED is about the building," he elaborates, "while WELL is about the experience of the occupants in the building."

The tool for measuring, certifying, and monitoring the features of the built environment that further human health is the brainchild of Paul Scialla, a former Goldman Sachs partner. In 2007, he founded Delos—a research, consulting, and development company that he describes as a "wellness real-estate" business. Scialla explains that he saw opportunity in combining real estate, "the world's largest asset class," with health and wellness, "its fastest-growing industry."

Delos first developed WELL as a proprietary system in collaboration with medical and health professionals. But to advance its goals, Scialla decided to offer it as a publicly available standard. And, to administer it, he established the International Well Building Institute (IWBI) as a public benefit company, or B Corp, a type of for-profit entity recognized in many states whose mission includes having a positive impact on society. Last October, after a multistage peer-review process, the institute released version 1.0 of WELL, which is tailored specifically to offices. Standards for other building types are in the works.

According to IWBI, three pilot projects have so far been certified, and projects totaling more than 10 million square feet, in buildings located throughout the world, are on the path to certification. Although this figure is dwarfed by the number of LEED buildings—almost 60 million square feet were certified in the month of April alone—the WELL tally is impressive, considering that it is still so new.





LEG UP
The leadership of Pittsburgh's Phipps Conservatory and Botanical Gardens decided to seek WELL certification for a new administration building after the completion of construction. Because the structure already had features like a centrally placed, daylit, and visually appealing stair, only minor modifications were needed.

ROAD TO WELLNESS

In its 216 pages, WELL 1.0 outlines recommended practices, organizing them into seven categories: air, water, nourishment, light, fitness, comfort, and mind. Within each of these are strategies—or in WELL lingo, features—that can be applied to a building project or space to promote the health of the human body, including its cardiovascular, immune, and respiratory systems. Some of these strategies are designated as "preconditions," meaning they are required for certification, while others are voluntary measures, or "optimizations," that can help a project surpass basic certification and achieve a Gold or Platinum rating.

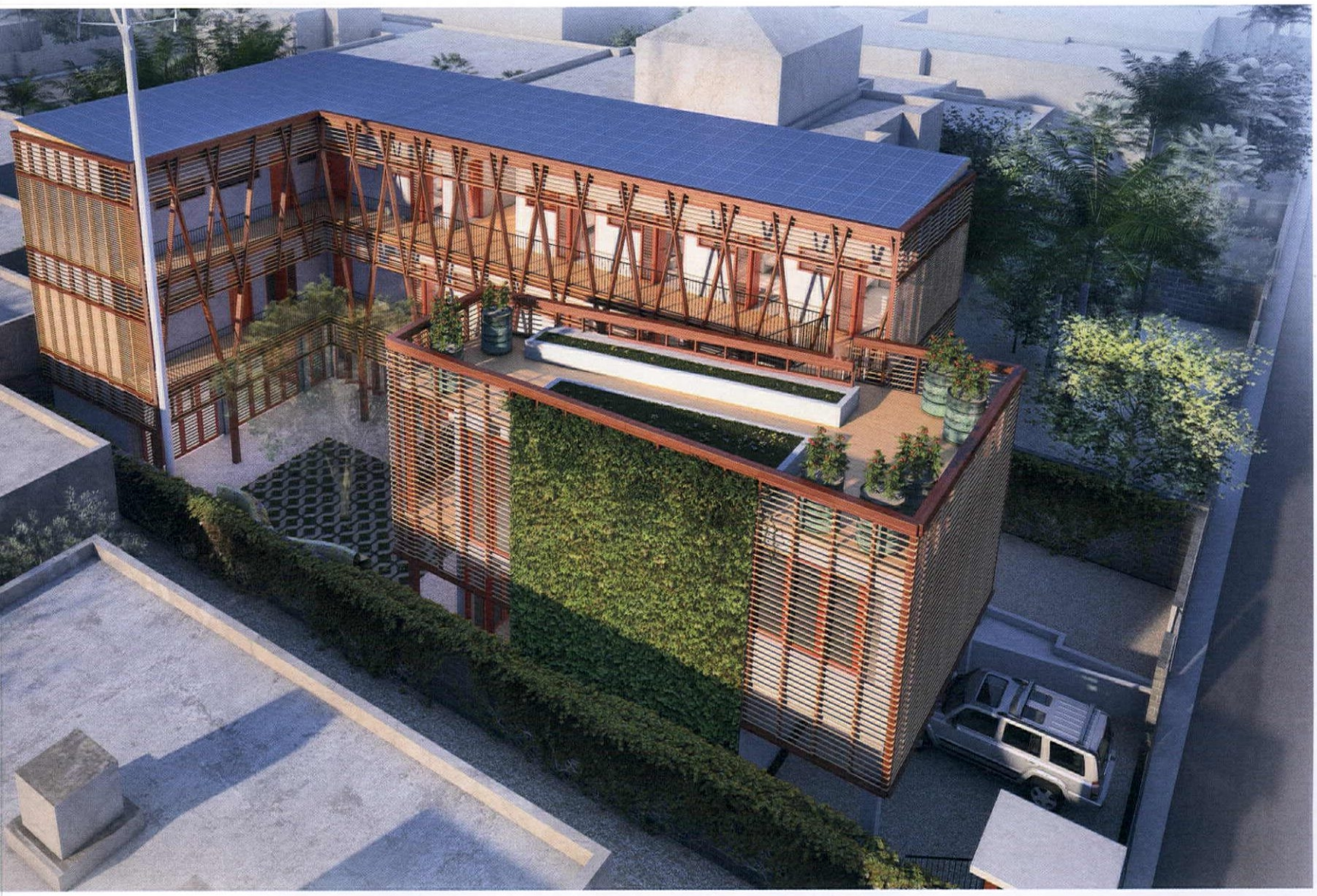
Sources say that WELL 1.0 catalogues what goes into the making of a healthy environment. The document "teases apart the various aspects of wellness," rendering its concepts both "accessible and actionable," says Beth Heider, chief sustainability officer at construction and development company Skanska USA. She served as a peer reviewer, as did Terrapin's Browning.

Many of the 102 features outlined by the standard depend on the space's configuration, finishes and furnishings, and mechanical systems, and therefore fall directly under the purview of the design and construction team. For example, there are requirements for walls and ceilings to have minimum light reflectance values in order to promote alertness, ultraviolet lamps incorporated into cooling systems to prevent mold growth, and ergonomic furniture. But other strategies, such as those limiting the amount of sugar in drinks available on the premises, housekeeping protocols relying on nontoxic and hypoallergenic products, and policies intended to encourage physical activity, like reimbursement for gym membership, clearly come under the purview of the client or tenant.

Some of the features are ahead of available technology. Aliza Skolnik, a senior associate with consulting engineering firm ESD, cites an optimization that calls for sensors continuously monitoring and displaying noise levels. There is no sensor suited for that purpose yet on the market, explains Skolnik, who is in the first group of provisional WELL APs, or accredited professionals (she will be eligible for full AP status after passing an exam to be offered for the first time this fall).

Designers from Mark Horton Architecture and Leddy Maytum Stacy Architects (LMS) encountered a similar problem when they renovated a floor in a 1920s office building in San Francisco's financial district. The client was Fahr LLC, which oversees several organizations owned and managed by environmentalists Tom Steyer and Kat Taylor. In addition to WELL, the architects for the recently completed project are seeking certification under the Living Building Challenge (LBC), a standard whose stringent requirements include a prohibition against using materials that contain any one of 22 chemicals on a so-called red list. The dual certification goal complicated furniture selection for the offices, especially since a compressed schedule, with less than two months for design, allowed little time for the vetting of materials. "If 12 chairs met the red list, WELL's ergonomic requirements eliminated 11 of them," says Adam Franch, project architect from LMS. Mark Horton believes

PHOTOGRAPHY © DENMARSH PHOTOGRAPHY



"LEED is about the building, while WELL is about the experience of the occupants in the building," says Terrapin Bright Green's Bill Browning.

that programs like WELL and LBC will provide manufacturers with an incentive to broaden the range of compliant products. "All this momentum will eventually change the market," he predicts.

THE PRICE OF HEALTH

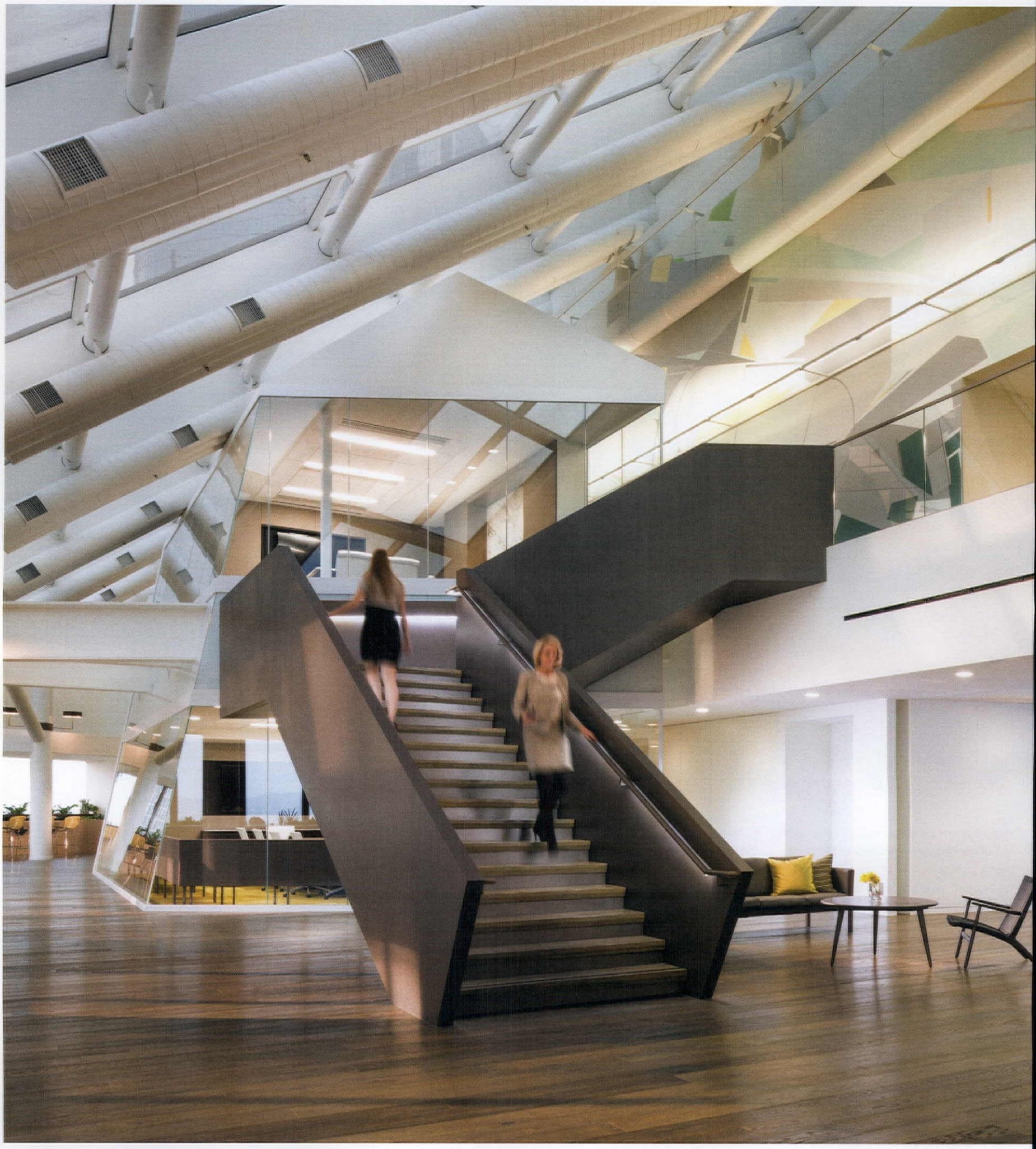
The certification process, which includes an on-site assessment for the testing of air, water, and lighting quality, will be managed by the Green Business Certification Institute (GBCI)—the organization (formerly the Green Building Certification Institute) that is also responsible for LEED certification. Fees for registration and commissioning vary depending on a project's size and type, but for a tenant improvement project smaller than 50,000 square feet, the total would be $8,300. IWBI charges an additional fee for the audit, which begins at $4,000.

The cost of actual compliance is a bit less clear-cut. Michelle Moore, an IWBI strategic adviser, points out that with only three certified projects so far, there isn't enough data for a comprehensive analysis. However, she expects low incremental construction costs, especially for those projects also targeting LEED. "Project teams that have figured out integrated design know that sustainability is about different decisions, not necessarily about more expensive ones," Moore notes. She recommends putting the two rating systems' checklists side by side to identify areas of overlap and pinpoint which credits or features entail additional investment. To aid this process, WELL 1.0 includes appendices that compare it with both LEED and the Living Building Challenge.

Onno Zwaneveld, an executive at real-estate services and investment company CBRE, says WELL features for his company's new Gensler-designed office on two floors of a 26-story building in downtown Los Angeles added 1.7 percent to the construction budget over the cost of its LEED Gold certification. The space, which received its WELL certification in November 2013, includes advanced air filtration and water purification, lighting intended to minimize the disruption of the body's circadian system, and ergonomic furniture such as stand-up desks.

Similarly, Josh Gould, CEO of RNL, the architect for a 229-unit condo complex in Denver, anticipates its premium for WELL compliance to be "just a few percentage points" when compared to a more conventional apartment building. Slated for completion in fall 2017, the structure will have a number of features intended to encourage physical activity, including a 12-story tower with a glass-enclosed stair. The architects hope that the views the stairs will provide of the

HEALTH FOR ALL
The U.S. Green Building Council and HOK are partners on the William Jefferson Clinton Children's Center project in Port-au-Prince, Haiti, which is now in design development. The team has committed to achieving LEED Platinum and WELL certification for the facility, which will deploy passive and renewable strategies.







HIGH MARKS
More than 90 percent of employees based in CBRE's new Gensler-designed WELL-certified offices in Los Angeles (opposite) say their new home contributes to their health and well-being. Architects from RNL say WELL features at a Denver condo complex (left) slated for completion in 2017 will increase the pool of potential buyers.

surroundings will entice residents to use them. Gould expects WELL certification to enlarge the pool of prospective buyers.

It goes without saying that it is easier to incorporate WELL if the goal is set early in the planning and design process. But it is possible to achieve certification even if that decision is made after the completion of construction. That's what the Phipps Conservatory and Botanical Gardens in Pittsburgh did with its Center for Sustainable Landscapes (CSL), a 24,000-square-foot administrative building executed by local architecture firm The Design Alliance. Completed in late 2012, the structure is LEED Platinum and Living Building Challenge–certified. It received its WELL Platinum certification in October.

In order to meet WELL standards, Phipps made only minimal changes to the building, which had been designed with many health-promoting aspects including ample daylight and a strong connection to the outdoors. Phipps added more ventilation to a copier room and swapped in ergonomic furniture. It also implemented a few changes to operating procedures and policies. These involved enhancing its already green cleaning practices, supplying break rooms with fresh fruit, and making Fitbits available to employees.

GREATER GOOD

Fans of the new standard hope it will advance the discussion of health and architecture in the public realm. However, some worry that for the moment at least, an environment that promotes wellness is perceived as a luxury. "We need to make sure we divorce healthy buildings from a level of amenity," says Claire Maxfield, director of the San Francisco office of Atelier Ten, an environmental design consultancy that was a peer reviewer of WELL's lighting sections. "I'm sure even IWBI would say so," she adds.

And in fact, IWBI's Paul Scialla maintains that he is absolutely dedicated to a standard that can be broadly employed. He says this goal will be furthered by the organization's B Corp status, which includes a commitment to contribute 51 percent of net profits from certification fees to philanthropic entities and investment that focuses on health and wellness. Among the rating system's many current pilot projects is the William Jefferson Clinton Children's Center, an orphanage in Port-au-Prince, Haiti, that is a collaboration between the U.S. Green Building Council and HOK. Details regarding another pilot project—an affordable-housing complex in New York—are expected to be announced soon. WELL isn't just for luxury apartments or class-A offices, says Scialla: "It is appropriate for any project type at every cost level." ■

Continuing Education

To earn one AIA learning unit (LU), including one hour of health, safety, and welfare (HSW) credit, read "The Picture of Health," review supplemental material at architecturalrecord.com, and complete the online test. Upon passing the test, you will receive a certificate of completion, and your credit will be automatically reported to the AIA. Additional information regarding credit-reporting and continuing-education requirements can be found online at ce.construction.com.

Learning Objectives

1. Explain the goals of WELL.
2. Outline the structure of WELL 1.0 and explain how it helps define the relationship between human health and the built environment.
3. Discuss how WELL differs from more established green building-rating systems such as LEED.
4. Discuss the challenges that the certification process poses for design teams.

AIA/CES Course #1506

FOR CEU CREDIT, COMPLETE THE ONLINE TEST QUIZ AT ARCHITECTURALRECORD.COM, OR USE OUR ARCHITECTURAL RECORD CONTINUING-EDUCATION APP, AVAILABLE IN THE ITUNES STORE.

IMAGES: COURTESY RNL (LEFT); © ROBERT GOBUTY

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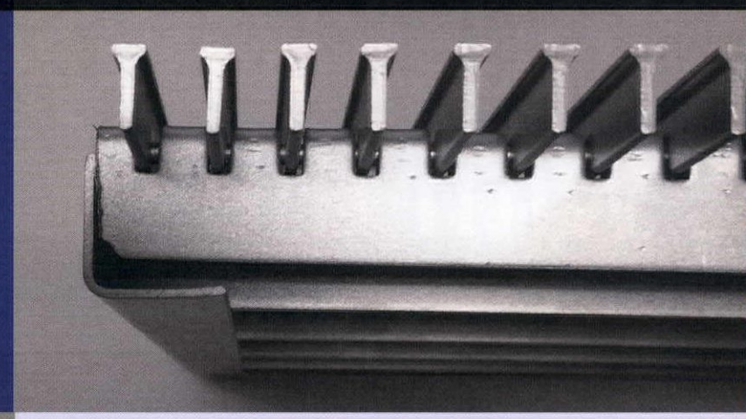
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SNAP 20

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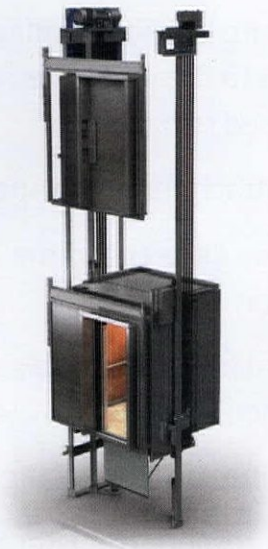
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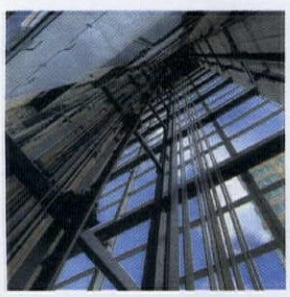


No machine room
No control room



HydroFit™

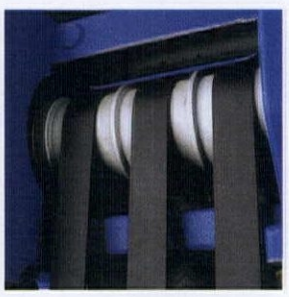
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SNAP 81

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Look to these pages for products brought to you directly from manufacturers. You'll find the information you need to make SNAP decisions: price, performance data, product application, and contact information. Use the reader service card in the issue of go online at architecturalrecord.com to request further details.



New York City skyscrapers as seen through a prototype SolarWindow module. **(SNAP #243)**

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Doors, Windows Pgs. 85-86

Doors, windows, storefronts, entrances, glazed curtain walls, skylights, translucent wall and roof assemblies.

Electrical, Lighting Pg. 90

Products for generating, transmitting, distributing, and transforming electrical energy, such as light fixtures and power supplies. Includes intercommunication equipment.

Equipment Pg. 92

Equipment for a broad range of applications, such as A/V and multimedia, conveyance, such as elevators, and household use, including appliances.

Interior Finishes, Furnishings Pg. 94

Products for finishing and furnishing building interiors, such as flooring, wall coverings, ceilings, furniture, shelving systems, coat racks, and window treatments.

Landscaping, Sitework Pg. 98

Exterior improvement products, such as site furniture, bicycle racks, bollards, pavers, landscape edging, and exterior green walls. Also includes trellis systems, gazebos, and other site structures.

Materials Pg. 100

Basic products, such as lumber, concrete, and masonry units used in construction. Includes paint, coatings, structural materials and fittings, and products designed for more generic use in multiple applications.

Mechanical Systems, HVAC, Plumbing Pg. 102

Products for conditioning, moving, holding, and otherwise controlling air, water, and other fluids. Includes plumbing products, fans, ventilators, and boilers.

Roofing, Siding, Thermal & Moisture Protection Pgs. 106-110

Products for constructing the building envelope, such as exterior wall and roof panels, sheathing, thermal insulation, and waterproofing.

Specialty Products Pgs. 114-118

Products for special applications, or products that may apply to more than one category, such as railing systems, fencing, gates, ladders, columns, signage, awnings, and canopies.

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SNAP 37

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DOORS, WINDOWS

HEAVY-DUTY 2" FOAMED-IN-PLACE SECTIONAL DOOR

GREEN

Entrematic
Amarr Garage Doors

The triple-layer, insulated Amarr 2742 (formerly Model 2700) boasts supreme energy efficiency. The foamed-in-place polyurethane insulation is designed for dependability in all climates.

Performance Data
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- 27-gauge steel interior and exterior
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- Thermally broken & chemically bonded section joint
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SNAP 244

DOORS, WINDOWS

STRUCTURAL THERMAL BARRIER TECHNOLOGY SAVES ENERGY

GREEN

Azon

Structural thermal barrier technologies for energy efficiency and high strength for aluminum fenestration products used in the building envelope.

Product Application
- Storefront and curtain wall applications
- Commercial aluminum, windows, doors and skylights
- Thermal barriers for commercial aluminum framing

Performance Data
- Intelligent technologies reduce overall U-factor
- Higher CRF (condensation resistance factor)



www.azonintl.com
800.788.5942

SNAP 245

DOORS, WINDOWS

DO YOU DREAM IN DAYLIGHT?

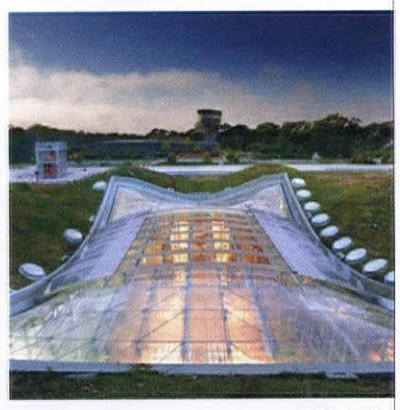
$$$ | GREEN

Covestro

Makrolon polycarbonate sheets provide clear advantages over glass in architectural glazing, such as break resistance and design freedom.

Product Application
- California Academy of Sciences, San Francisco, CA
- Sparks High School, Sparks, NV
- Canada Place, Vancouver, Canada

Performance Data
- Abrasion resistance and weatherability
- 15-year warranty for Makrolon 15



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877.413.7957 | Cindy Race

SNAP 246

DOORS, WINDOWS

WINDOW WALLS

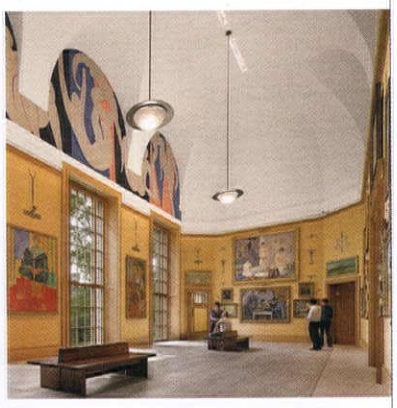
WR | GREEN

Duratherm Window Corporation

Custom hardwood window wall systems for residential and commercial installations.

Product Application
- Barnes Museum and Art Education Center
- Monticello Visitor Center
- Mercersburg Performing Arts Center

Performance Data
- Sustainably harvested lumber for LEED
- NWDA tested; commercial grade
- Hurricane/impact performance class: Wind Zone 3, Missile Level D



www.durathermwindow.com
800.996.5558 | Timothy Downing

SNAP 247

DOORS, WINDOWS

MIXED GLAZED WALL SYSTEMS AND SKYLIGHTS

GREEN | WR

Major Industries, Inc.

Combine the light control and performance benefits of translucent panel systems with the views of fixed glass or the ventilation control of operable windows. Available for wall systems and skylights.

Product Application
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- Enhance the look of athletic facilities while controlling direct sunlight penetration.



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SNAP 248

DOORS, WINDOWS

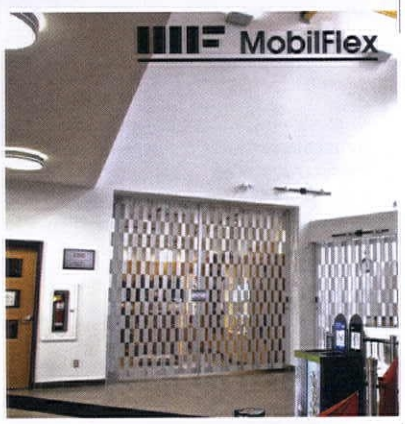
CLOSURE SYSTEMS

MobilFlex Folding & Rolling Closures Inc.

MobilFlex provides imaginative options for a wide range of storefront entrance and space delineators.

Product Application
- Malls, window protection, banks, schools, hospitals, airports, ships, reception desks

Performance Data
- Any layout, any radius curve
- Large spans – up to 19 ft high, 200 ft wide
- Distinctive looks, rugged protection



www.mobilFlex.com
800.501.3539

SNAP 249

DOORS, WINDOWS

CAST IRON DOOR CLOSER

$$$

Norton Door Controls

Ideal for high-use openings, the Norton 9500 Series Cast Iron door closer offers durability, flexibility and strength.

Product Application
- Forged standard and heavy-duty arms
- Adjustable spring sizes 1-6
- Closer mounting installation bracket standard

Performance Data
- Exceeds 20 million cycles (witnessed & verified by UL)
- 25-year limited warranty



www.nortondoorcontrols.com
704.233.1586 | Lana Kirkpatrick

SNAP 250

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

DOORS, WINDOWS

PRE-GLAZABLE CURTAIN WALL SYSTEM

EFCO Corporation

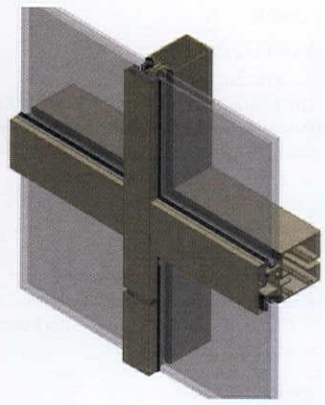
5600PG is a versatile curtain wall system available in stock lengths, with pre-glazed capability or factory fabricated, assembled and glazed.

Product Application

- Outside glazed captured or SSG curtain wall system for low- to mid-rise buildings.
- 6", 7.5" and 10" depths available for greater design flexibility.

Performance Data

- Duracast® pressure plate available for enhanced thermal performance.
- Anti-buckling clips enable ease of installation.



www.efcocorp.com
800.221.4169 | Josh Wignall

SNAP 251

DOORS, WINDOWS

HEAVY-DUTY PIVOT SET

Rixson

Rixson's L117 pivot is the ideal way to hang a heavy door that does not need to be self closing.

Product Application

- Exterior or interior doors
- Lead-lined, heavy or high-traffic doors

Performance Data

- Weights up to 1,750 lb
- Available for fire door assemblies
- Doors will swing 180°, trim permitting



www.Rixson.com
704.233.1586 | Lana Kirkpatrick

SNAP 252

DOORS, WINDOWS

SIMPLIFY DOOR SCHEDULING

Allegion

Spec Exchange is a custom-developed Revit plug-in that allows architects to transfer the door schedule back and forth with their spec writer, directly from Revit.

Performance Data

- Reduces time spent preparing hardware specifications
- Eliminates manual data entry
- Reduces errors
- Architects have complete control of attributes from start to finish



www.allegion.com/us/specexchange
888.657.3641

SNAP 253

DOORS, WINDOWS

ONE-PIECE HYDRAULIC & LIFT- STRAP BIFOLD DOORS

WR

Schweiss Doors, Moving Walls

Schweiss Doors manufactures unique custom doors. One-piece hydraulic doors and patented Lift-Strap opening/closing bifold doors.

Product Application

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- You think it, they build it
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Performance Data

- Faster, safer operation
- Zero lost headroom
- Superior design that keeps working



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507.426.8273 | schweiss@schweissdoors.com

SNAP 254

DOORS, WINDOWS

ADJUSTABLE CONCEALED HINGES

$$$

SIMONSWERK North America, Inc.

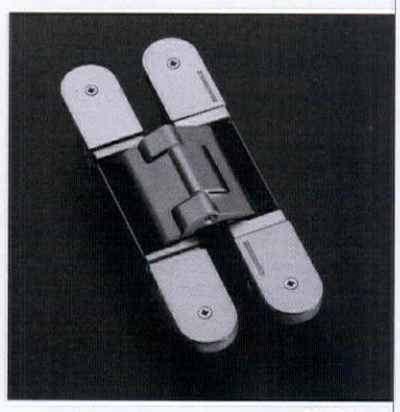
The TECTUS 3-way adjustable concealed hinge series for doors offers designers and architects an entire range of hinges for different architectural openings.

Product Application

- Hospitality – Armani Hotel, Burj Khalifa, Dubai, U.A.E.
- Residential – 2012 Olympic Village, London, U.K.
- Retail – Apple Retail Stores, global

Performance Data

- Maintenance-free slide bearings for doors up to 300 kg/660 lb
- Designed for high-frequency use (not limited to low-frequency applications)



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SNAP 255

DOORS, WINDOWS

STAINLESS SLIDING DOOR HARDWARE

MWE

Stainless sliding door hardware

Product Applications

- Hotels, condos
- Lofts, meeting rooms
- Restaurants & bars

Performance Data

- German precision
- Soft close: smooth & silent
- Fully customizable



barndoorhardware.com
310.648.7601 | tom gross

SNAP 256

DOORS, WINDOWS

IN-FLOOR ELECTROMECHANICAL SWING DOOR OPERATOR

WR

Tormax Technologies, Inc.

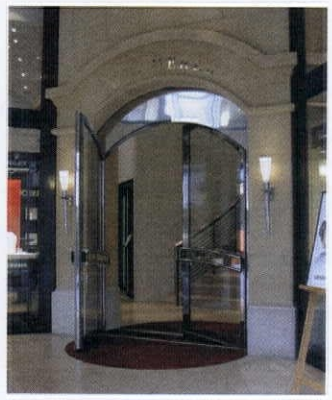
Fully concealed in-floor operator was designed for rigorous conditions of commercial use for doors weighing up to 1,000 lb.

Product Application

- Buildings that meet the Historic Preservation Society guidelines

Performance Data

- Solid glass, wood, metal, fiberglass and/or arched doors
- Elevated design for convenience, comfort, safety
- Eco-friendly, 110-VAC electromechanical operator



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888.685.3707

SNAP 257

DOORS, WINDOWS

VINYL WINDOWS & DOORS

WR

Simonton Windows

Custom-built, energy-efficient windows and doors for light commercial or residential projects.

Product Application

- Elizabeth Seton Pediatric Center, Yonkers, NY
- Kendal on the Hudson, Sleepy Hollow, NY
- The Raritan Inn, Califon, NJ

Performance Data

- ENERGY STAR Partner
- AAMA Gold Label certification
- NFRC



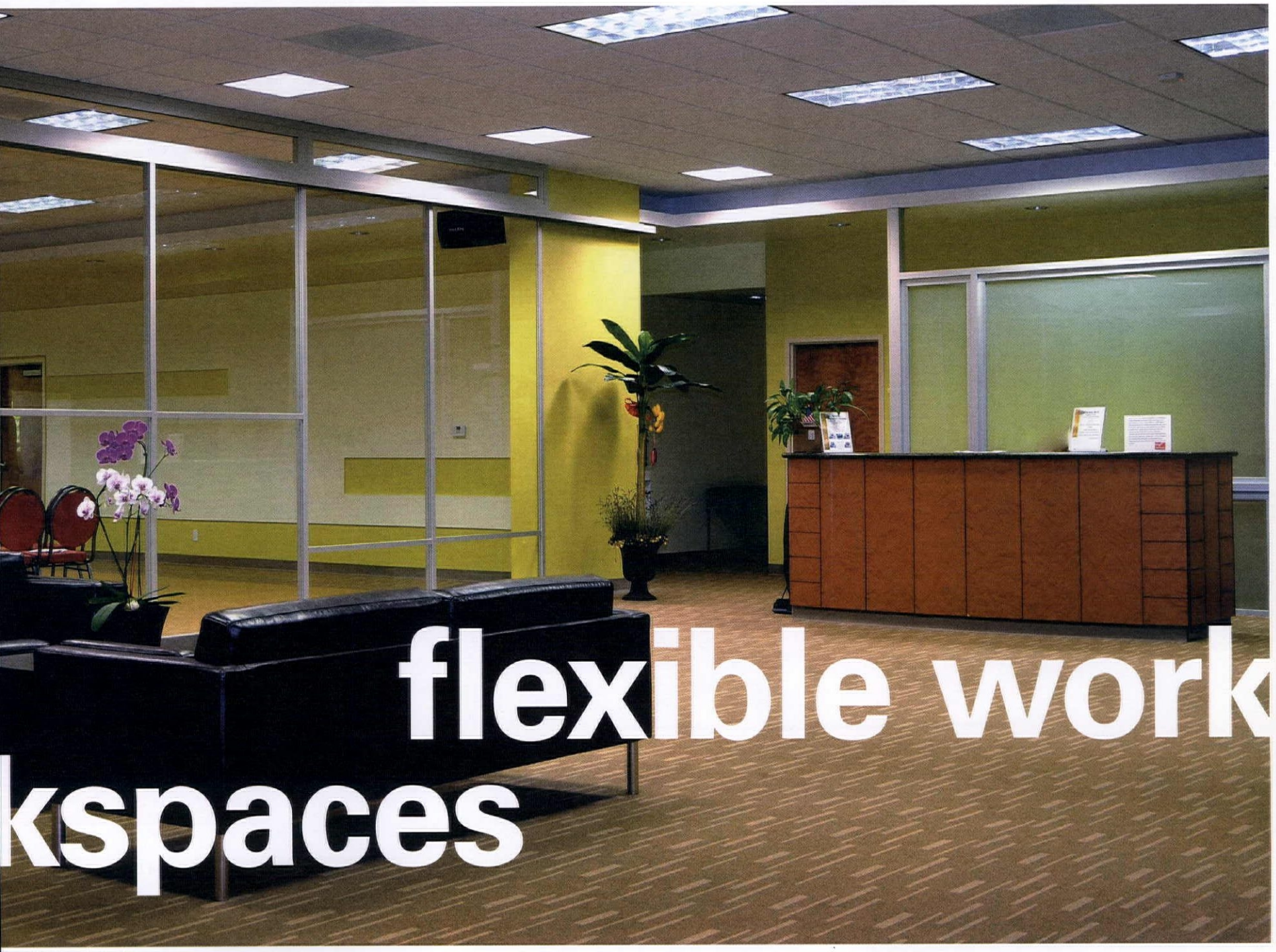
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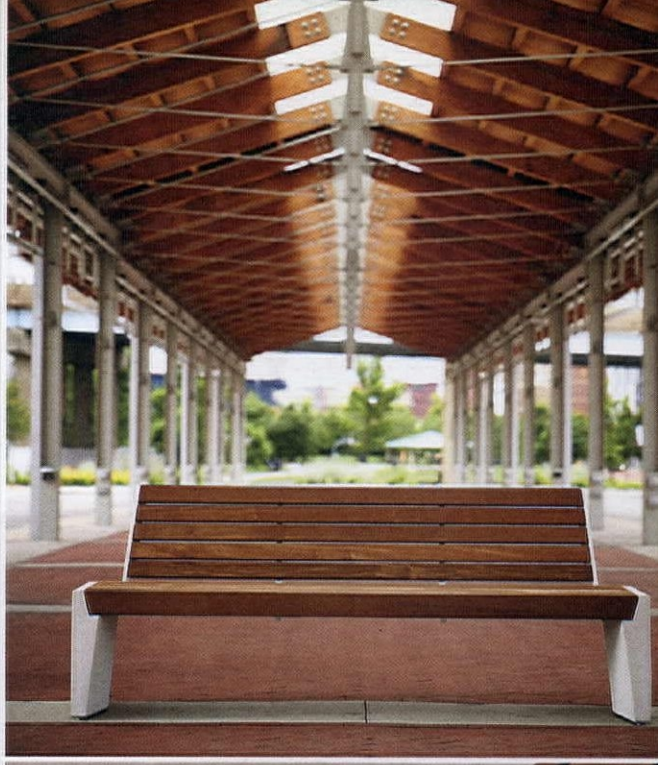
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DESIGN. CULTURE. CRAFT.

Evolution™

Thermal and Moisture Protection

Thermal and Moisture Protection Roof and Wall Panels

Division 7 Thermal and Moisture Protection Specification Section 07411 - Manufactured Roof Panels

The Overly *Evolution* metal wall and roof system is without raised batten or standing seams and exposed fasteners. The system consists of a hidden drain channel, compression bar, cover cap and cladding sheets. The smooth, contemporary design appears monolithic when viewed from just a short distance. It's an 'Evolution' to all the standard metal wall and roof systems available throughout the history of the industry.

Applications

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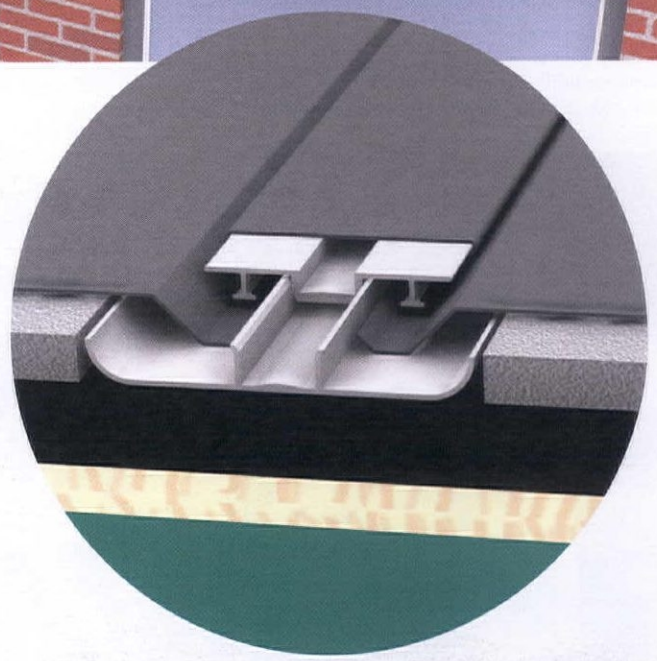


Materials

- Aluminum Alloy 3003-H14, Standard Thickness 18 gauge (.040")–16 gauge (.050") available in painted K500 finishes, brushed and mill finishes
- Stainless Steel type 304 and type 316, 24 gauge (.024") –20 gauge (.036") available in 2B, 2D, #4 and several custom directional and non-directional finishes
- Titanium Grade 1, gauges .018"–.024" available in standard mill or matte finishes
- Zinc, gauge .028"–.032" available in natural or pre-weathered finishes
- Recycled content varies upon material selected. 100% recyclability of all metal components

System Design Data

- Width of Compression Cover: 2.75"
- Mininum/Maximum Spacing between Compression Covers: 12"–48"
- Maximum Length of Panels: 40'
- Compression Extrusion Thickness: .056"
- Channel Extrusion Thickness: .056"
- Test data in accordance with ASTM E 283, ASTM E 330, ASTM E 331 and UL 580 (Class 90 available upon request)



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MANUFACTURING COMPANY

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- • Designed to accommodate large A/V devices

Performance Data
- • UL Listed
- • Meets ADA Accessibility Guidelines



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SNAP 259

SPECIALTY PRODUCTS

CEILING FANS

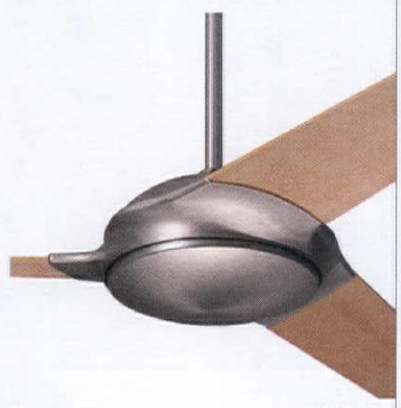
$$

The Modern Fan Co.

A collection of contemporary ceiling fans aimed at the professional specifier and design-minded homeowner alike.

Product Application
- 50 UN Plaza Federal Bldg, San Francisco, CA
- LA Fitness (multiple locations)
- Skechers (multiple locations)

Performance Data
- Contract quality construction
- Highly efficient contribution to thermal comfort



www.modernfan.com
888.588.3267 | Dave Ellis

SNAP 260

ELECTRICAL, LIGHTING

ELECTRIC VEHICLE CHARGING STATIONS

WR | GREEN

SemaConnect, Inc.

The ChargePro Electric Vehicle Charging Station comes bundled with free station management software, giving owners a full turn-key solution for deploying a program at your property.

Product Application
- Commercial real estate
- Multifamily
- Retail

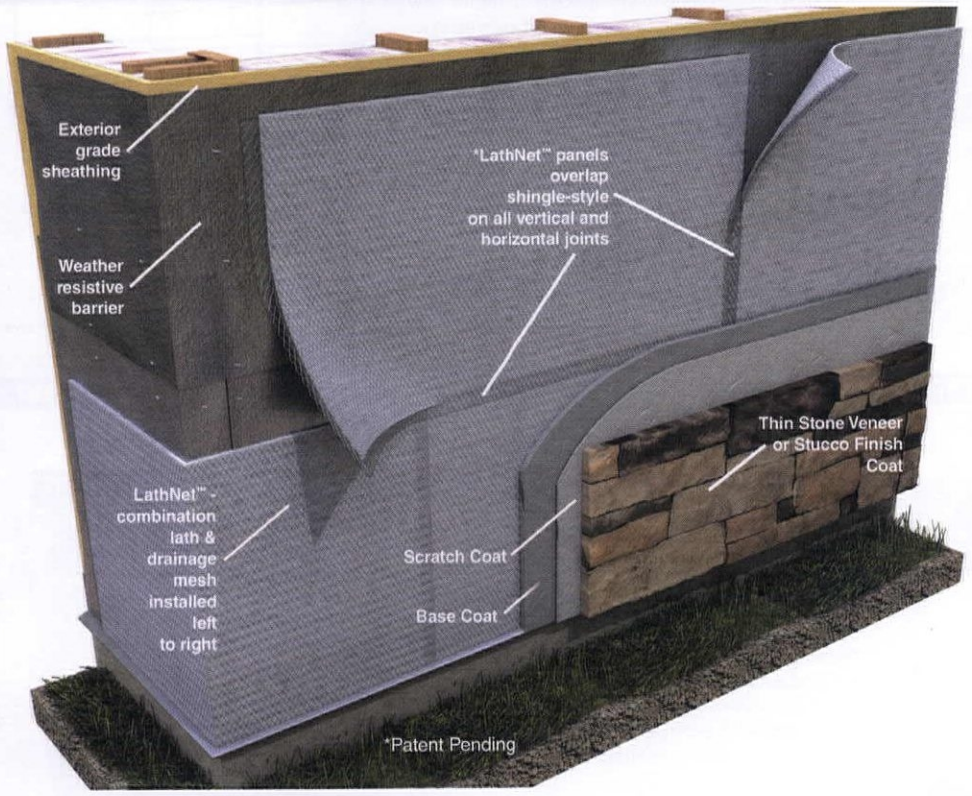


www.semaconnect.com
301.352.3730

SNAP 261



NEW *LathNet™ - Drainage Mesh and Metal Lath in One



LathNet™

For Stucco and Adhered Masonry

Install the metal lath and drainage plane in one simple step

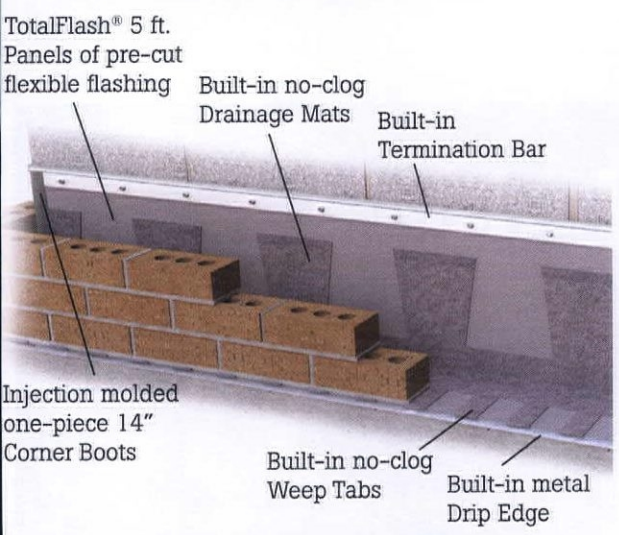
- Reduces labor time and costs
- Reduces wall penetrations
- Installs and performs just like regular metal lath
- Walls dry fast, stay drier than with lath alone

Call or email for samples:
technicalservices@mortarnet.com

800.664.6638
mortarnet.com

SNAP 17

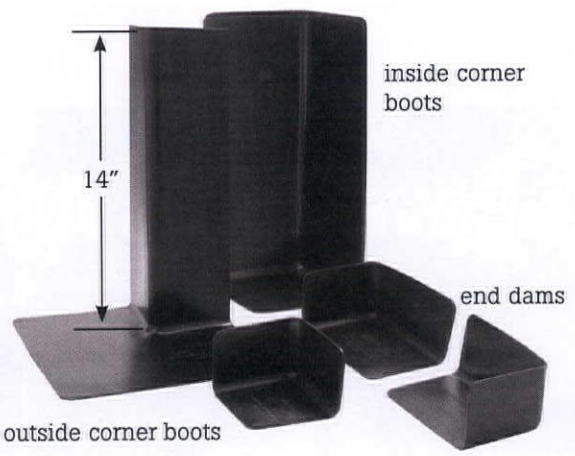
Mortar Net SOLUTIONS



TotalFlash® - Complete Masonry Cavity Wall Drainage Solution

Cuts Flashing System Installation Time, Helps Keep Veneer Walls Dry

- 5' (net) panels with flashing membrane, drainage mat, weep tabs, termination bar and drip edge
- Applicable in all flashing locations, including base of wall, parapet walls, and above bond beams, wall openings and structural steel members
- Perfect for new construction and masonry restoration
- Available in EPDM, TPO, SR and PVC stabilized with Elvaloy® KEE



CompleteFlash - Industry-First 14" High Corner Boots, only from Mortar Net Solutions

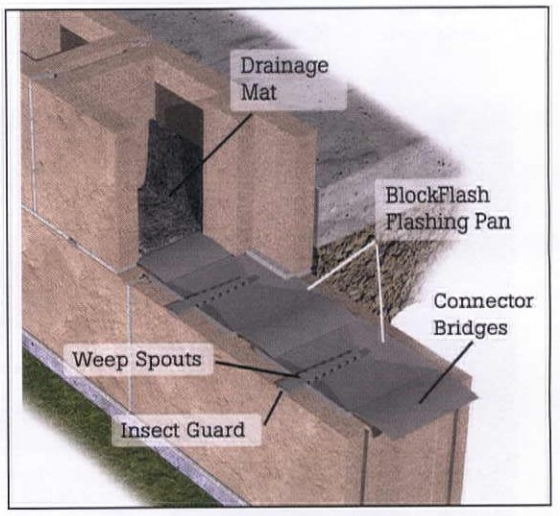
The only corner boots that extend above standard flashing

- One-piece, injection molded
- Highly puncture-resistant to prevent leaks
- Available in synthetic rubber/polypropylene blend (SR), TPO and PVC stabilized with Elvaloy® KEE

Inside and outside corner boots, right, left and universal end dams available.

Mortar Net SOLUTIONS

326 Melton Road
Burns Harbor, Indiana 46304
Phone: 800.664.6638
Fax: 219.787.5088



BlockFlash® – The Only Embeddable Flashing Solution For Single-Wythe CMU Walls

- Sloped pans with integrated weep spouts collect and channel moisture out of the wall
- Up to 50% faster installation than through-wall flashing
- Included drainage mesh prevents mortar damming
- 10X stronger block bond than through-wall flashing
- Snap-off connector bridge for easy installation at grouted cells and corners
- Integrated insect guards keep bugs out

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	85-86
Electrical, Lighting	Pgs.	90
EQUIPMENT	**PGS.**	**92**
Interior Finishes, Furnishings	Pgs.	94
Landscaping, Sitework	Pgs.	98
Materials	Pgs.	100
Mechanical Systems, HVAC, Plumbing	Pgs.	102
Roofing, Siding, Thermal & Moisture Protection	Pgs.	106-110
Specialty Products	Pgs.	114-118

EQUIPMENT

NEW SERIES DOCK LIFTS

Advance Lifts

Advance Lifts is proud to announce their totally new 3400 series, which will replace the old 4100 series.

- New features include: Same capacities and platform sizes as the old 4100 lift models
- 15-in. lowered heights
- Cantilevered platform design just like the other 3000 series dock lifts
- New lower prices, which means greater value



www.advancelifts.com
800.843.3625 | michaelr@advancelifts.com

SNAP 262

EQUIPMENT

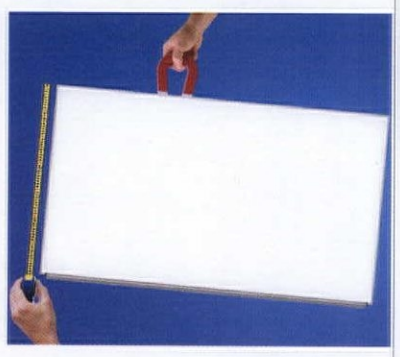
NEW IDEAS

Da-Lite

The new IDEA™ line provides optimal touch performance, and is the best screen on the market for interactivity. New standard features include a magnetic surface and thin frame.

Product Application
- Erasable
- Compatible with any dry erase marker

Performance Data
- Hotspot free



www.da-lite.com/NewIDEAs
800.622.3737 | info@da-lite.com

SNAP 263

EQUIPMENT

DISHWASHER

$$ | NEW

Maytag® Home Appliances

Their Quietest Dishwasher Ever has all the cleaning power of the Maytag brand without the ruckus. They built this large-capacity dishwasher with tough stainless steel to take on the worst messes.

Performance Data
- 4-blade stainless steel chopper
- Features PowerBlast™ rinse cycle
- Premium ball-bearing rack glides
- Product SKU: MDB8969SDM



www.insideadvantage.com
800.253.1301

SNAP 264



Always be on the SAFE SIDE

Flood Barriers and Watertight Doors since 1939



Watertight Hatches for MTA, New York City



QuickWall for Whitney Museum, New York City



Watertight Door for Pump Station, Iowa



Hinged Flood Gate, Iowa City

Engineering Excellence, Innovation & Quality

Fast Delivery

Cost Effective

Customized for any Location

Designed for any Pressure & Size

SNAP 27

Walz & Krenzer, Inc.

91 Willenbrock Rd., Unit B4, Oxford CT 06478
203.267.5712 | fax 203.267.5716
sales@wkdoors.com | www.floodbarriers.com

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	85-86
Electrical, Lighting	Pgs.	90
Equipment	Pgs.	92
INTERIOR FINISHES, FURNISHINGS	**PGS.**	**94**
Landscaping, Sitework	Pgs.	98
Materials	Pgs.	100
Mechanical Systems, HVAC, Plumbing	Pgs.	102
Roofing, Siding, Thermal & Moisture Protection	Pgs.	106-110
Specialty Products	Pgs.	114-118

INTERIOR FINISHES, FURNISHINGS

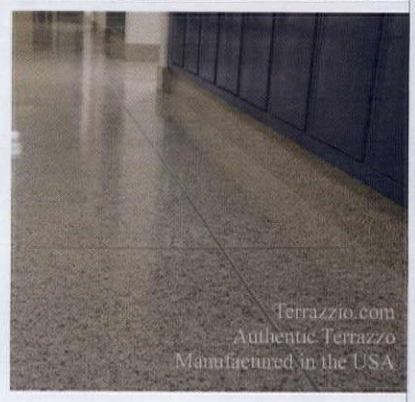
AUTHENTIC TERRAZZO FLOORING

Install Terrazzio Today ...
Walk on Terrazzio Tomorrow.

TERRAZZIO is manufactured to present a smooth Authentic Terrazzo Floor. Terrazzio is installed by a Professional Ceramic Tile Contractor.

Product Application
- Schools
- Hospitals and Airports
- Government Facilities – 100,000sf at Quantico
- Terrazzio Logos

Product Data
- 16sf and 32sf Tiles
- 20% Recycled Material



www.terrazzio.com
931.845.3434

SNAP 265

INTERIOR FINISHES, FURNISHINGS

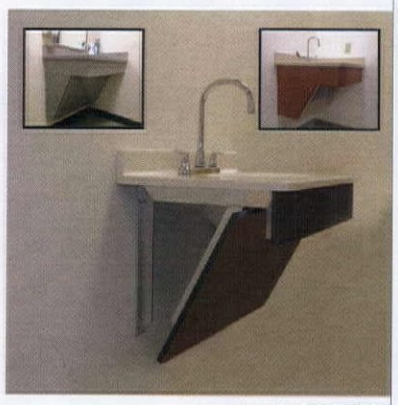
VANITY BRACKETS

$ | GREEN

Rangine Corporation/Rakks

Rakks ADA-compliant aluminum vanity brackets simplify and reduce the cost of installing sinks and provide a stable mounting surface for custom-built enclosures.

Performance Data
- Supplied with wooden strips on the front faces to provide convenient mounting or removal of surface panels
- Available in standard sizes and made-to-order



www.rakks.com
800.826.6006 | David Greenberg

SNAP 266

INTERIOR FINISHES, FURNISHINGS

PROJECTABLE MAGNETIC GLASS DRY-ERASE BOARDS

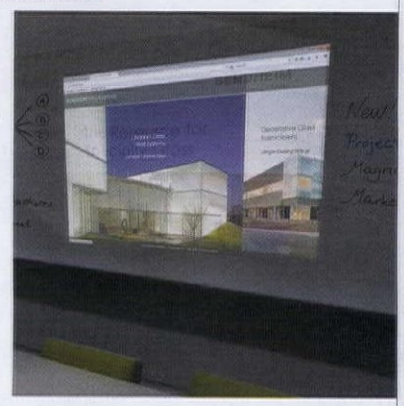
NEW | $$

Bendheim

Bendheim's magnetic glass marker boards are in a class of their own, combining the finest maintenance-friendly glass surfaces and the strongest magnetic action in the industry.

Product Application
- Marker boards
- Projection surfaces
- Writable wall cladding

Performance Data
- No ghosting or permanent staining
- Laminated safety glass meets building codes



www.BendheimArchitectural.com
800.221.7379 | info@bendheim.com

SNAP 267

INTERIOR FINISHES, FURNISHINGS

WARM TOWEL LUXURY WITH HEATED TOWEL RACK

Amba Products

Custom Sirio Dual-purpose Heated Towel Rack / Space Heater brings luxury and comfort to bathrooms, spas, and hotels.

Product Application
- Keeps towels warm, dry and mold/mildew free
- 304-Grade Stainless steel
- Polished, Brushed, and Oil-Rubbed Bronze finishes
- Custom-made in Padua, Italy

Performance Data
- 21–43" Height
- 21–57" Width
- 392–1262 BTU Output



www.ambaproducts.com
404.350.9738 | fred@ambaproducts.com

SNAP 268

INTERIOR FINISHES, FURNISHINGS

SEAMLESS HIGH-DESIGN FLOOR SYSTEMS

$$

Stonhard

Stontec URF is a seamless, chemical-, stain- and impact-resistant, urethane-based floor system with a decorative flake-infused design. A designer's choice.

Product Application
- Stadiums and entertainment venues
- Restaurants, food courts and concessions
- Box suites, locker rooms and concourses

Performance Data
- Seamless, easy to clean and high performing
- Stands up to heavy traffic and continuous use



www.stonhard.com
800.257.7953

SNAP 269

DOORS, WINDOWS

AUTOMATIC DOOR BOTTOMS: REGULAR OR HEAVY DUTY

$$

Zero International

Patented technology activates to drop the seal with a smooth, scissor-like motion when closing and retracts when opening. No drag and a tight seal against the saddle or floor.

Product Application
- Many models to choose from
- Sound or fire ratings
- Surface, semi- or full-mortised mountings

Performance Data
- Maximum drop 1 in. unless specified
- Reversible for left- or right-handed doors
- Closed-cell neoprene or lead-lined



www.zerointernational.com
718.585.3230

SNAP 270

INTERIOR FINISHES, FURNISHINGS

HIGH DEFINITION GLAZED PORCELAIN FLOOR & WALL

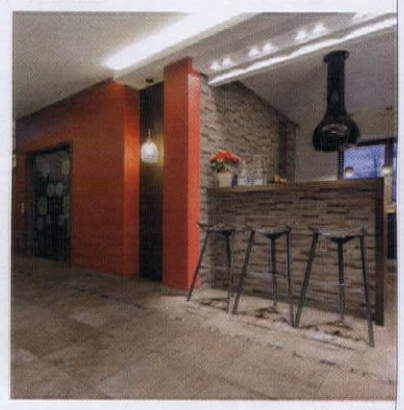
NEW | GREEN

Florida Tile

Since 1954, Florida Tile has been an innovator, from building the first floor tile plant in the USA to introducing the first digitally printed products with its HDP – High Definition Porcelain® lines.

Product Application
- All residential and commercial wall, countertop and backsplash applications, all residential and most commercial floor applications

Performance Data
- EarthstoneHDP by Florida Tile is the newest HDP line featuring four earthy tones



www.floridatile.com
800.352.8453 | sales@floridatile.com

SNAP 271



NEW

OPTIMIZED ANGLE REDUCES STRAIN

DESIGNED FOR A MORE NATURAL HAND POSITION THAN TRADITIONAL PLIERS



DO MORE ON THE JOB

irwin.com

IRWIN VISE-GRIP ERGOMULTI LONG NOSE PLIERS

Gripping, twisting, stripping and crimping wire in tight working conditions just got a whole lot easier with our new multi-functioning long nose pliers. Plus, their three-zone comfort grips allow for optimum control.

Backed by the IRWIN VISE-GRIP Lifetime Guarantee.
Experience the ergonomic difference for yourself at your local tools retailer or distributor.

IRWIN®
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Cool by Design



Torsion >> Dark Bronze with Mahogany Blades

THE MOD-ERN FAN CO

A Collection of Ceiling Fans

Designed by Ron Rezek

Celebrating the modern idiom

modernfan.com

SNAP 16

ENDICOTT™

ENDICOTT BIM endicott.com

SPEAKS VOLUMES.

The benefits of specifying Endicott brick on your next project are virtually limitless. Princeton Library in Princeton, NJ is one shining example. No other brick could satisfy the requirements for timeless elegance and attention to detail. And Endicott's unique ability to provide countless special shapes helped the vision become reality.

Choose from the industry's most striking colors and textures, along with a wide variety of sizes and special shapes to help you meet any budget or design challenge. Endicott really does help architects realize their vision.

For the name of your nearest Endicott distributor, or to request samples, literature and BIM models, call or visit us online today. Let's talk brick.



Princeton Library, Princeton, NJ

Endicott Clay Products Co./Endicott Thin Brick & Tile, LLC · P.O. Box 17 · Fairbury, Nebraska USA 68352 · 402-729-3315 · endicott@endicott.com

SNAP 8

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	85-86
Electrical, Lighting	Pgs.	90
Equipment	Pgs.	92
Interior Finishes, Furnishings	Pgs.	94
LANDSCAPING, SITEWORK	**PGS.**	**98**
Materials	Pgs.	100
Mechanical Systems, HVAC, Plumbing	Pgs.	102
Roofing, Siding, Thermal & Moisture Protection	Pgs.	106-110
Specialty Products	Pgs.	114-118

LANDSCAPING, SITEWORK

FIBERGLASS FENCE SYSTEMS

$$ | GREEN

F&F Composite Group, Inc.

Maintenance-free, weatherproof, waterproof, fiberglass fence systems, three times tensile strength of steel, variety of colors, non-conductivity, lifetime warranty, green.

Product Application

- Kona International Airport, HI
- Hurst Conference Center, Hurst, TX
- US AFB, Portugal
- Alcoa, Washington

Performance Data

- Highest strength in a fence product
- Sustainable, no maintenance



www.fiberfence.com
817.379.4411 | Suzanne Seely

SNAP 272

LANDSCAPING, SITEWORK

BICYCLE SHELTERS

ICON Shelter Systems Inc.

Open, partially enclosed or fully enclosed bicycle structures help to protect and secure non-motorized bikes from sun, rain and vandalism.

Product Application

- RH11X40M2C-P4, Riverside Plaza, Chicago, IL (shown)
- Bicycle garage and waiting station, Valparaiso, IN
- SG15.5X37.8M-P4, Sunnyside Trailhead, Clovis, CA
- Integrated bicycle racks
- Windscreens, doors and benches available
- Steel frame E-coated/powder coated 8-12 mils thick



www.iconshelters.com
800.748.0985

Booth: 225 ASLA

SNAP 273

LANDSCAPING, SITEWORK

CUSTOM SHELTER DESIGN & FABRICATION

$$

ICON Shelter Systems Inc.

The experienced designers, structural engineers and CAD technicians at ICON can custom design any type of outdoor structure to meet your site requirements.

Product Application

- Wedding gazebo in Greenville, KY (shown)
- Custom arbor structure in Jersey City, NJ
- Smoking shelter at The Plaza in Chicago, IL

Performance Data

- Structural steel e-coated and powder coated
- Custom designed to local building codes
- Sealed engineering calculations and drawings



www.iconshelters.com
800.748.0985 | ben@iconshelters.com

Booth: 225 ASLA

SNAP 274

CONSTRUCT CSI 2015

BUILDING A BETTER WORLD

ONLINE REGISTRATION IS OPEN

WWW.CONSTRUCTSHOW.COM

50+ education sessions available that are taught by industry experts.
AIA LUs and HSWs and GBCI CE available for select sessions.
Don't delay, register today

FREE Expo with registration code: ADSNAP15

ST. LOUIS
SEPTEMBER 29-OCTOBER 3
AMERICA'S CENTER | ST. LOUIS, MO

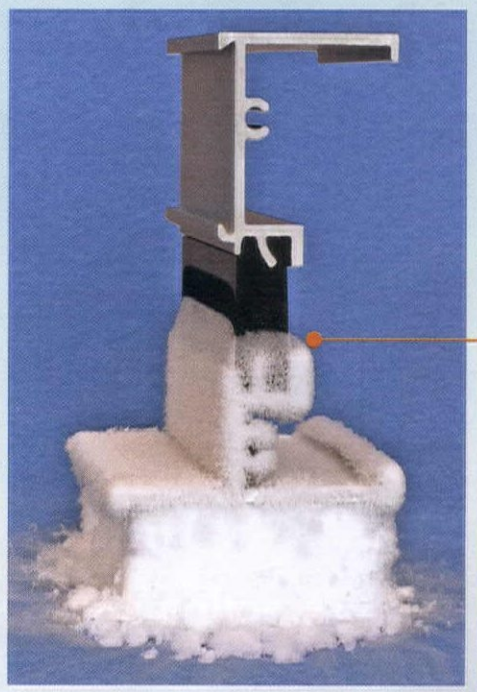
*Offer valid on new registrations only. No refunds will be issued.

informa exhibitions

Azon Saves Energy

Daylighting systems produced with Azon structural thermal barrier technologies—the **MLP™** or **Dual Cavity**—for aluminum windows and high performance glazing components for insulating glass, will yield a fenestration system capable of upholding the highest efficiency and sustainability standards.

- Polyurethane polymer with superior insulating properties for the best balance of energy efficiency and performance
- NEW: MLP™(mechanical lock profile) and dual cavity designs for fenestration products used in the most demanding climates and conditions
- High strength for larger spans—industry's strongest thermal barrier for aluminum storefront, curtain wall and windows
- AZO/Tec® technical services with expertise in window design



Extreme cold temperatures of -100ºC (-148ºF) will not transfer through an aluminum frame with a modern pour and debridge thermal barrier (and *neither will high temperatures in very hot environments*)

CONTINUING EDUCATION AIA

1 HSW Learning Unit

1-800-788-5942 | www.azonintl.com

AZON

SNAP 4

Learn about the role of Azon thermal barriers in energy conservation.

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	85-86
Electrical, Lighting	Pgs.	90
Equipment	Pgs.	92
Interior Finishes, Furnishings	Pgs.	94
Landscaping, Sitework	Pgs.	98
MATERIALS	**PGS.**	**100**
Mechanical Systems, HVAC, Plumbing	Pgs.	102
Roofing, Siding, Thermal & Moisture Protection	Pgs.	106-110
Specialty Products	Pgs.	114-118

MATERIALS

ECHO ELIMINATOR ACOUSTICAL PANELS

$ | GREEN

Acoustical Surfaces, Inc.

Echo Eliminator is a high performance acoustical material made from recycled cotton, and is ideal for noise control applications. Product can be used as acoustical wall panels or hanging baffles.

Product Application

- Schools, Restaurants, Offices, Childcare, Clinics
- Pro Audio, Auditoriums, Community Centers, Churches
- Anywhere high performance noise control is needed

Performance Data

- Class A Fire Rated, no VOC's or formaldehyde
- Requires no warning labels, lightweight, durable



www.acousticalsurfaces.com
800.448.0121 | sales@acousticalsurfaces.com

SNAP 275

MATERIALS

ACOUSTICAL CLOUDS

Armstrong Ceiling Systems
SoundScapes Shapes

Add quiet and make open space feel more intimate.

Performance Data

- Enhance acoustics in open space
- Aesthetically define spaces
- Standard flat panels in multiple sizes and shapes
- Variety of standard and custom colors



armstrong.com/shapes
877.276.7876

SNAP 276

MATERIALS

MATTERHORN BUILDING STONE

WR | GREEN

Arriscraft

Made from 99% reclaimed material (from existing manufacturing processes), Matterhorn is available in Blueridge and Saddle colors and features a dynamic combination of Guillotined and Tumbled finishes.

Product Application

- - Commercial; residential
- - Interior and exterior applications

Performance Data

- - Meets reqs of ASTM C73
- - Compressive strength, durability and dimensional tolerances w/n range of quality limestone (ASTM C568) and sandstone products (ASTM C616)



www.arriscraft.com

SNAP 277

Ballew's
ALUMINUM PRODUCTS INC

SNAP #112



Protection and Aesthetic appeal all in one product

Ballew's Aluminum Products offers many colors and styles of overhead canopies that are fully engineered. On a storefront or loading dock, Ballew's has a cover for any application!

4 locations: **Greer, SC - Southaven, MS - Oklahoma, OK - Manheim, PA**

Phone: **800-231-6666** ▪ Website: **www.ballews.com**

MATERIALS

METAL COMPOSITE MATERIAL (MCM)

WR | GREEN

Citadel Architectural Products, Inc.

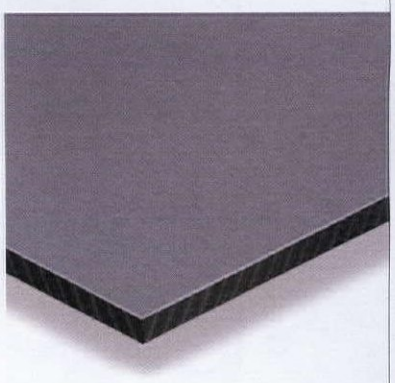
Envelope 2000 is a metal composite material (MCM) with several different attachment options.

Product Application

- Sandler Center for the Performing Arts, Virginia Beach, VA
- Consol Energy Headquarters, Canonsburg, PA
- The Columbian Newspaper, Vancouver, WA

Performance Data

- Impact, water and fire resistant
- Code tested and approved



www.citadelap.com
800.446.8828 | Sean Walker

SNAP 278

MATERIALS

QUALITY CLAY MASONRY UNITS, UNIQUE COLORS

Endicott Clay Products Co.

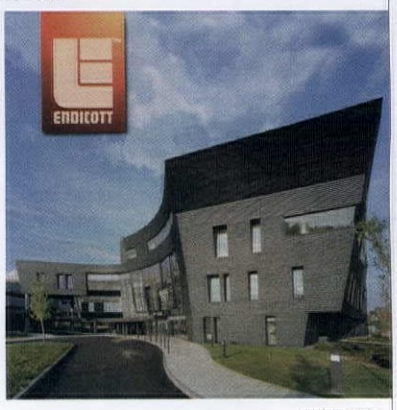
Face brick, thin brick, tile and pavers. A variety of sizes in a unique palette including exclusive Ironspot colors and endless special shapes.

Product Application

- Yale Health Center, New Haven, CT (at right)
- Prudential Center (arena), Newark, NJ
- Target Corporation Headquarters, Minneapolis, MN

Performance Data

- Meets or exceeds ASTM standards
- Backed by a large BIM catalog



www.endicott.com
402.729.3315 | Gary Davis

SNAP 279

SMART VENT®

Foundation Flood Vents

Floods Happen. Vent Smart.

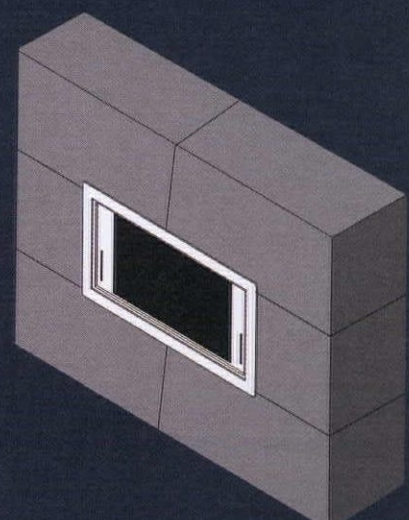
The SMART VENT technology keeps homes structurally sound during a flood event.

WHAT'S NEW

Visit smartvent.com/architects to view these files

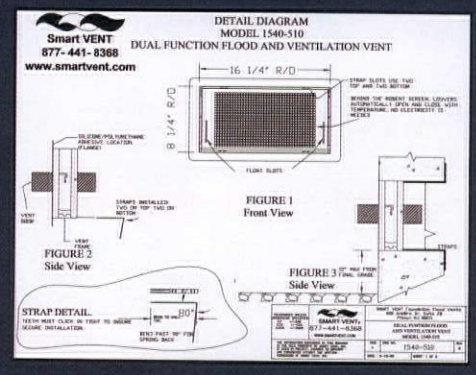
BIM DOWNLOADS

AutoDesk ® Revit®
BIM files and Specs.



CAD DOWNLOADS

CAD files and Specs on
the Sweets™ Network.



PROJECT EVALUATION

The FRE team of Certified Floodplain Managers are an excellent resource throughout project development. Based on your design plans, they are able to:

- Recommend solutions and specify vents into your plans
- Provide Flood Insurance quotes

ICC ES ESR-2074
EMA Accepted & ICC-ES Certified

NEED ASSISTANCE?

(877) 441- 8368 • www.smartvent.com

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online at McGraw-Hill's
Continuing Education Center

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	85-86
Electrical, Lighting	Pgs.	90
Equipment	Pgs.	92
Interior Finishes, Furnishings	Pgs.	94
Landscaping, Sitework	Pgs.	98
Materials	Pgs.	100
MECHANICAL SYSTEMS, HVAC, PLUMBING	**PGS.**	**102**
Roofing, Siding, Thermal & Moisture Protection	Pgs.	106-110
Specialty Products	Pgs.	114-118

MECHANICAL SYSTEMS, HVAC, PLUMBING

IN-SINK DRAIN SYSTEM

$$ | GREEN | NEW

Just Manufacturing

Integra Drain—seamlessly welded to sink, creates integral drain in-sink system, without additional parts or rings. Reduces leak potential. Includes basket strainer and tailpiece.

Product Application

- Commercial & residential applications
- Ideal for healthcare environments

Performance Data

- Integral seamless sanitary drain system
- Heavy-gauge stainless strainer
- Includes JSGN-8-6 self-adapting sensor operated mixing faucet with manual override



www.justmfg.com/Integra-Drain
847.678.5150 | custserv@justmfg.com

SNAP 280

MECHANICAL SYSTEMS, HVAC, PLUMBING

SHOWER DRAIN SECURED WITH MAGNETS

Infinity Drain – Made in the USA

NEW from 5-in. square drain strainers for shower or outdoor applications. Four patterns available. Manufactured in Long Island, New York.

Product Application

- Strainer secured with magnets
- Finish options: satin stainless steel, polished stainless steel, oil rubbed bronze
- Residential and high flow capacity available

- Buildings NY – Booth #226
- HD Expo – Booth #5470
- Dwell on Design – Booth #1859



InfinityDrain.com/Products-G-Series
516.767.6786 | Info@InfinityDrain.com

SNAP 281

MECHANICAL SYSTEMS, HVAC, PLUMBING

INFECTION-CONTROL SINK

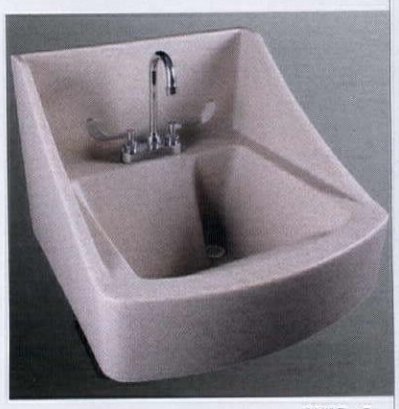
NEW

Willoughby Industries

Designed to minimize splattering & reduce the spread of infectious disease, WICS Series infection-control sink keeps water from splashing directly into the drain & aerosolizing contents in trap.

Performance Data

- Seamless one-piece solid-surface lavatory deck
- Offset drain position w/ indirect path to drain
- Oversized backsplash
- Wrist blade or infrared faucet
- Stainless steel shroud



www.willoughby-ind.com
800.428.4065 | willoughby@willoughby-ind.com

SNAP 282



MECHANICAL SYSTEMS, HVAC, PLUMBING

BARRIER-FREE TUB/SHOWER RECEPTORS

$$

Florestone Products Co., Inc.

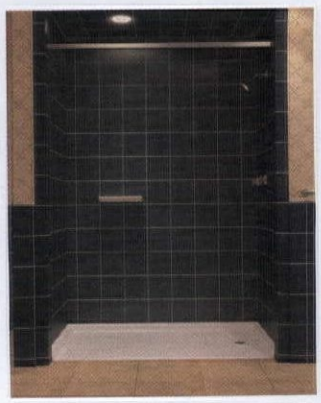
Florestone one-piece molded fiberglass shower receptors. Slip-resistant floor with off-set drain. Standard and barrier-free threshold option.

Product Application

- Bathroom remodeling projects with a conversion from a standard bathtub to a shower floor
- No relocation of plumbing connection is required

Performance Data

- Cost-saving solution for bathroom remodels
- Easily replaces existing tub with no need to redo plumbing or move any walls



www.florestone.com
800.446.8827 | David Sotelo

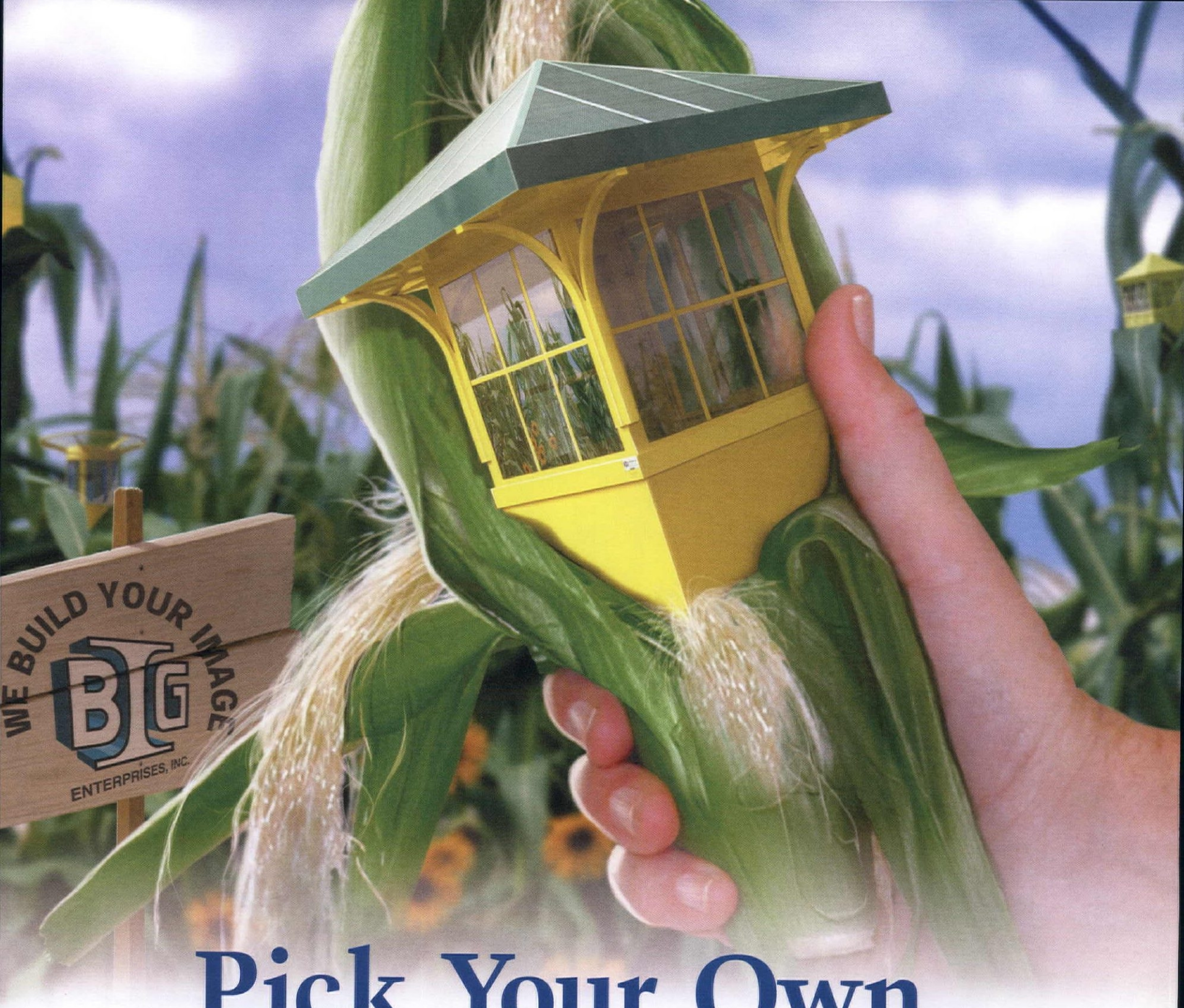
SNAP 283

Clear Seas
RESEARCH
Making the complex clear

MAKING THE COMPLEX CLEAR

Clear Seas Research is an industry-focused market research company dedicated to providing clear insights to complex business questions. Capturing feedback via quantitative surveys (online, phone, mail or in-person) OR qualitative experiences (one-on-ones, focus groups or bulletin boards), we present results that are easily understood, insightful and actionable.

www.clearseasresearch.com



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The Next Generation Slab®
LATICRETE® SUPERCAP® System

MVIS™
Masonry Installation and Care Systems

SPARTACOTE®
Patented High Performance Polyaspartic Coating Systems
Resinous/Decorative Finishes

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SNAP 14

Snap for video

Snap for more information

So much more than tile and stone installation materials

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ROOFING, SIDING, THERMAL & MOISTURE PROTECTION	**PGS.**	**106-110**
Specialty Products	Pgs.	114-118

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ARCHITECTURAL PRECAST CONCRETE CLADDING PANELS

GREEN | WR

Easi-Set Worldwide

Ultra Hi-Performance Slenderwall is a 28 lb/sf award-winning architectural precast concrete and steel-stud exterior panel system wind-load tested to 226 mph.

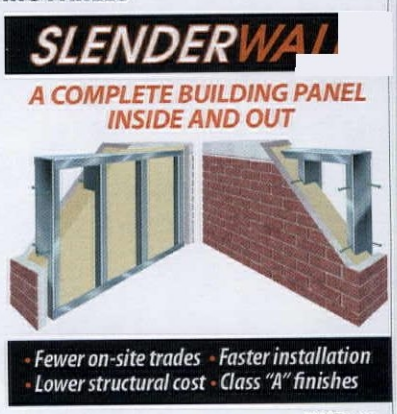
Product Application

- BioInnovation Center, New Orleans, LA
- Johns Hopkins Hospital, Baltimore, MD
- Westin Luxury Hotel, Virginia Beach, VA
- US Army Legal Headquarters, Ft Belvoir, VA

Performance Data

- Factory-installed continuous closed-cell foam insulation – ASTM C-1363 hot box tested and compliant with all IECC/ASHRAE energy conservation codes

www.SlenderWall.com
800.547.4045 | info@easiset.com



SNAP 284



CASCADE Metal Panel System

CASCADE is CENTRIA's newest single-skin metal panel system featuring a distinctive 1-1/2" deep rib, with a soft curve and an angular sloped web for dramatic shadow relief. Each of CASCADE's seven new interchangeable ribbed profiles work with CENTRIA's full line of Concept Series® panels, setting a new standard for customization in façade design.

To learn more visit CENTRIAperformance.com or call 800.250.7897.

SNAP 285

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ARCHITECTURAL METAL ROOF & WALL SYSTEMS

WR | GREEN

Metal Sales Manufacturing Corporation

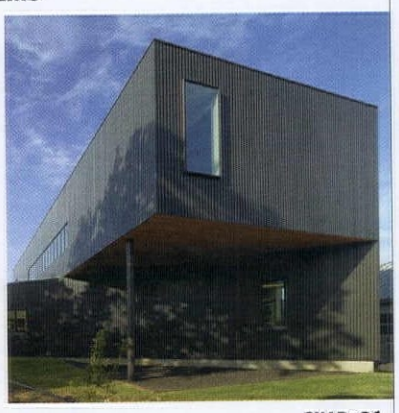
Durable, recyclable metal panels designed for versatility, expression and high performance.

Product Application

- Commercial, institutional and residential buildings
- Integrates with renewable energy strategies
- Long life cycle, low maintenance

Performance Data

- ENERGY STAR, LEED, CRRC and CA Title 24
- ASTM E-1592 compliant
- Miami-Dade County approved



metalsales.us.com
800.406.7387 | inspired@metalsales.us.com

SNAP 286

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

12' SPAN ROOF DECK WITH TECTUM V -- NEW IN 2015

WR | GREEN | NEW

Tectum Inc.

A composite roof deck with an NRC of up to .60, the environmental credentials and abuse resistance you expect from all Tectum products, a 12' span and an R-value of 33. It's Tectum V.

Performance Data

- Spans of up to 12 feet
- NRC of up to .60
- R-value of 33



Tectum.com
888.977.9691 | info@Tectum.com

SNAP 287

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

CLADDING FINISHES INSPIRED BY MOTHER NATURE

$ | GREEN

Alcoa Architectural Products

DesignLine™ finishes for Reynobond® panels resist sun, extreme temperatures—even salt water. These advanced polymer coatings are available in dozens of nature-inspired patterns and textures.

Product Application

- Intermarine Shipyard Operations and Office Building
- Element Hotel
- International Village Residence Hall at NEU

Performance Data

- Ideal for outdoor applications
- 20-year warranty
- 39 distinct color choices



reynobond.com/designline
800.841.7774 | Customer Service Department

Booth: 1837 Greenbuild

SNAP 288

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

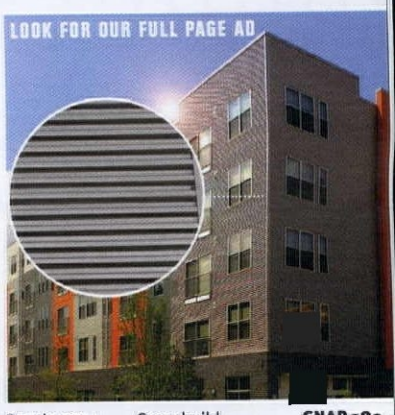
GRAND C PANELS | SILVERSMITH

ATAS International, Inc.

The Grand C Panels provide an economical solution for today's metal roofing and metal siding needs.

Product Application

- Walls
- Fascias
- Mansards
- Equipment Screens
- Roofing (minimum slope 3:12)

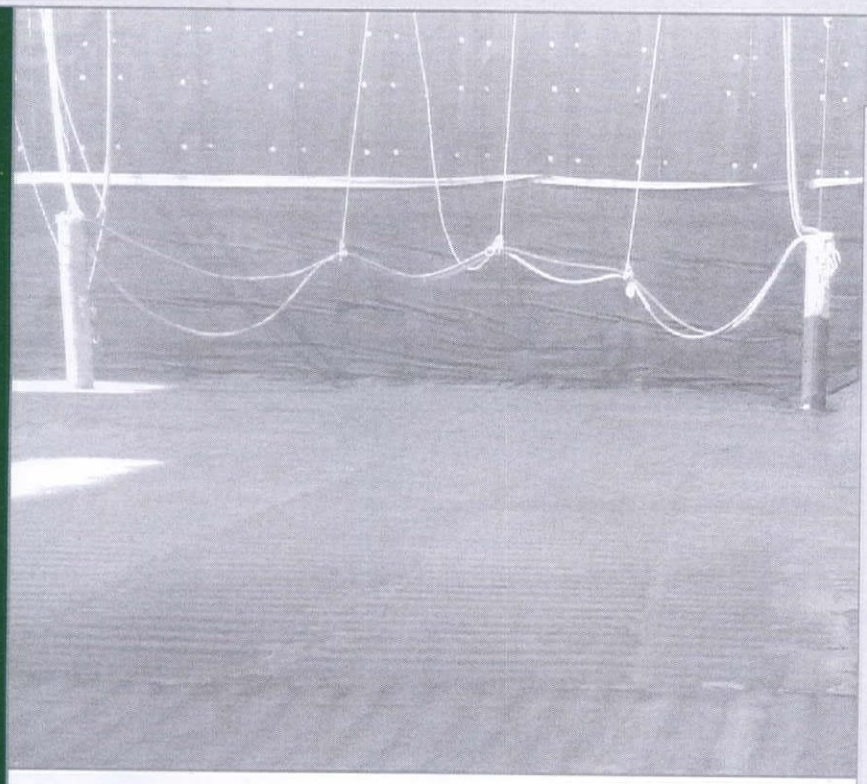


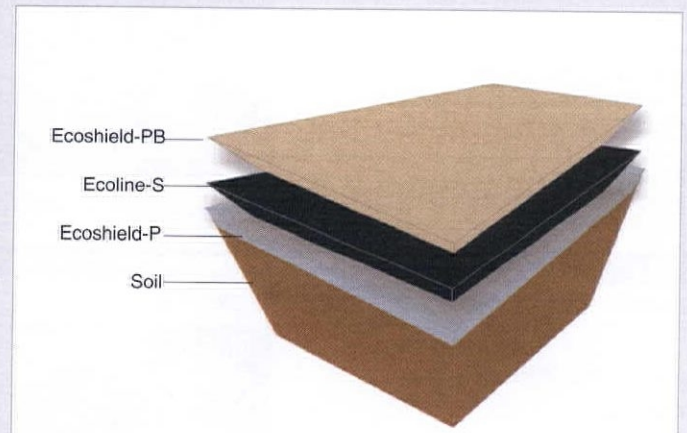
www.atas.com
800.468.1441

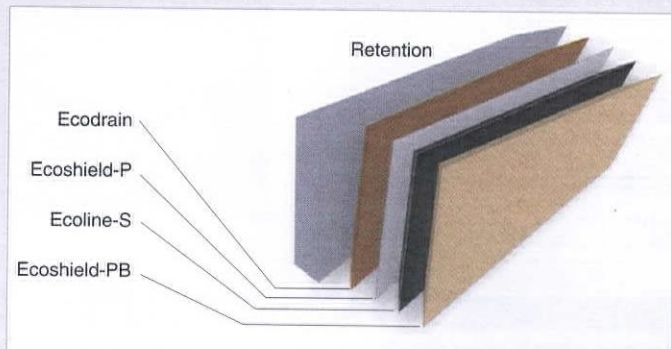
Booth: 3214 Greenbuild

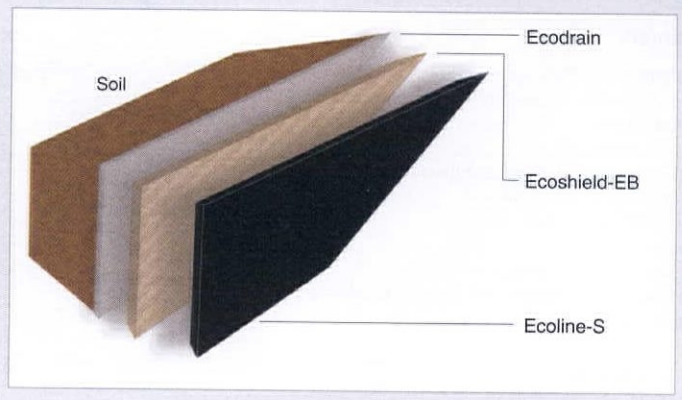
SNAP 289

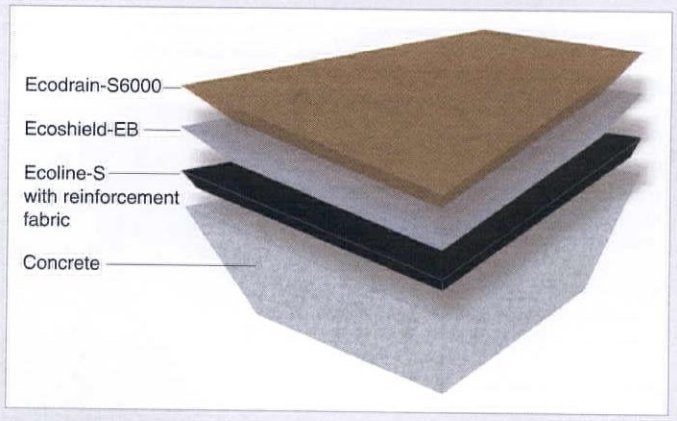
Epro's Fully Integrated Field Installed Composite Waterproofing System Provides the Most Protection, Fastest Installation, Lowest Cost and Best Warranty in the Industry Today!











Four New Field Installed Systems Available ...

- System III CWB Concrete / CMU Wall Waterproofing
- System III RDB Roof / Deck Waterproofing
- System III MBB Waterproofing / Gas Barrier
- System III LWB Blindside Waterproofing / Gas Barrier

Excellent Strength and Chemical Resistance - the result of the unique field installed composite system design utilizing HDPE.

Seamless - The highly flexible spray or fluid applied membrane forms a monolithic barrier.

Exceptional Adhesion - The sprayed or fluid applied membrane bonds tenaciously to almost any substrate in almost any condition including green concrete or a damp substrate.

Self Sealing - The bentonite layers seal at any penetration of the system.

Redundant Protection - Multiple waterproofing protection courses and drainage plane.

epro™ Waterproofing Systems

A WORLD OF DIFFERENCE FOR REAL WORLD CONDITIONS

800-882-1896 • www.eproserv.com

SNAP 38

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

DESIGNED WITH DISTINCTION

WR

Dri-Design

Dri-Design is an advanced and sophisticated metal wall panel system....made simple.

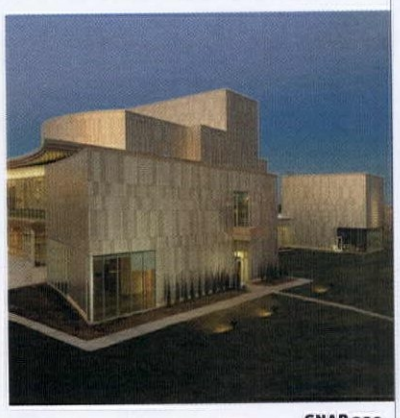
Product Application

- Pittsburg State Univ. - Bicknell Family Center for the Arts
- Pittsburg, KS
- Painted Aluminum

Performance Data

- True dry-joint rainscreen system
- Exceeds performance specifications of AAMA 508-07 and Dade County

www.dri-design.com
616.355.2970 | sales@dri-design.com



SNAP 290

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

SINGLE-PLY ROOFING SYSTEM

$$ | GREEN

Duro-Last Roofing Inc.

Ideal for any flat or low-sloped application. Extremely durable, watertight, highly reflective, resistant to chemicals, fire, high winds. Virtually maintenance-free.

Product Application

- DPI Specialty Foods, Henderson, CO
- Tube Specialties, Troutville, OR

Performance Data

- Custom-fabricated flashings for watertight rooftop transitions; roofing membranes precision-fabricated or delivered as rolled goods

www.duro-last.com
800.248.0280 | John Deal



SNAP 291

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

THE ULTIMATE WATER TABLE WATERPROOFING SYSTEM

Epro Services, Inc., Wichita, KS 67211

Product Application

- Complete field-installed composite
- Cost effective, timely application
- Adaptable project design
- Flexible for unique construction conditions
- High productivity

Performance Data

- Seamless, self-sealing system
- Excellent strength and durability
- Exceptional chemical resistance
- Fully bonded to slab
- Redundant protection

www.eproserv.com
800.882.1896 | info@eproserv.com



SNAP 292

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

LATH & DRAINAGE IN ONE SYSTEM

$ | NEW

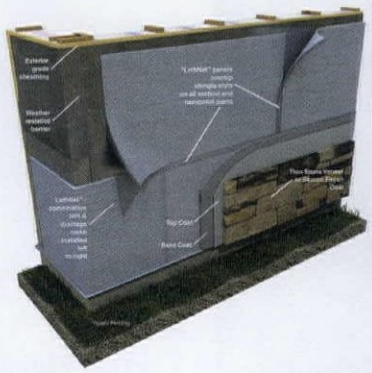
Mortar Net Solutions

LathNet is the first factory-assembled drainage plane and metal lath system for adhered masonry veneer walls in residential and commercial buildings.

Performance Data

- Continuous drainage plane allows fast, complete drainage and drying.
- Installs like regular lath.
- Prevents mortar bridging.

www.mortarnet.com
800.664.6638 | Art Fox



SNAP 293

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

SUSTAINABLE GREEN ROOF SYSTEMS

$ | GREEN

Sika Sarnafil

Protects structures from water infiltration while hosting sustainable, regenerative roof landscapes.

Product Application

- Walmart, Chicago, IL
- Janelia Farm Research Campus, Howard Hughes Medical Institute, Ashburn, VA
- US Postal Service, New York, NY

Performance Data

- More than 25 years' experience in US
- Single-source warranty for vinyl roof and vegetated landscaped cover

usa.sarnafil.sika.com
800.451.2504 | Jay Thomas



SNAP 294

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

EXPOSED FASTENED METAL ROOF PANELS

MBCI

To support our customers' design flexibility, MBCI offers 11 different metal roofing panels with exposed fasteners, each with its own unique profile.

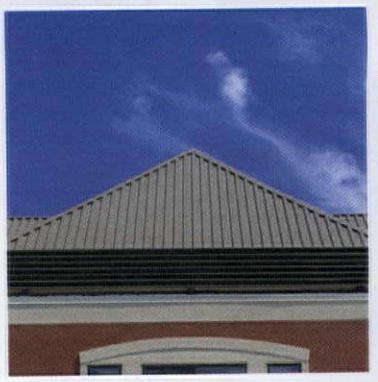
Product Application

- Weber State University, Ogden, UT
- Camden County Charter School, Camden, NJ
- Lighthouse Bay Apartments, Tampa, FL

Product Data

- Majority of exposed fastened panels may be used for roof and wall applications.
- Several panels hold FL and Miami-Dade approvals.

www.mbci.com
877.713.6224



SNAP 295

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

METAL ROOFING

GREEN

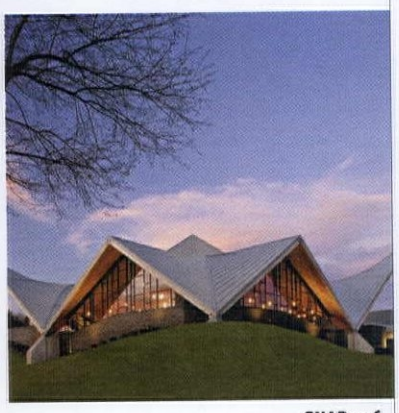
Englert, Inc.

Englert, Inc.'s ULTRA-Cool™ low-gloss coatings are standard on all Englert metal and aluminum products and help reduce energy bills up to 50%.

- Englert's own coil coating line provides a spectrum of ULTRA-Cool coatings that meet ENERGY STAR® and LEED requirements for reflectivity and emissivity

- ULTRA-Cool coatings come with a 35-year Kynar paint finish warranty

www.englertinc.com
800.Englert



SNAP 296

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

PERIMETER/ROOF EDGE SYSTEMS

$$ | GREEN

Petersen Aluminum Corporation

PAC Perimeter Systems are high-performance roof edge solutions for low-slope buildings. Petersen offers a complete line of fascia and coping systems for a wide variety of commercial applications.

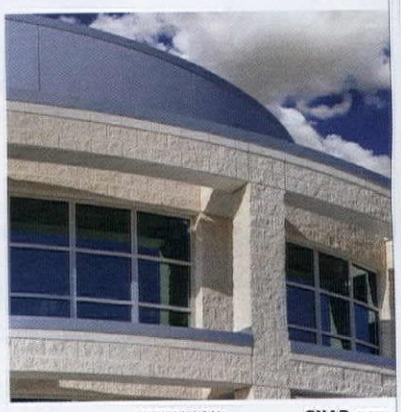
Product Application

- University of Texas at Dallas Student Housing Living/Learning Center II, Richardson, TX

Performance Data

- Produced in 12-ft.-0-in. lengths for extra cost savings
- Exceptional wind uplift protection

www.PAC-CLAD.com
800.722.2523 | Rob Heselbarth



Booth: 1230 METALCON

SNAP 297

DAYLIGHT BY DESIGN









INDOOR SKY

The Dayliter Shade System from Indoor Sky delivers glare-free daylight to interior spaces. It is fully configurable with single or multiple operable fabric lightshelves and an integral roller shade. The system also provides privacy in multi-unit residential applications without blocking natural light. Available in all shade fabrics and with operating options including full motorization.

SNAP 38

www.indoor-sky.com | 570-651-5105

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

RAISING WALL PERFORMANCE

$ | GREEN

SYNTHEON Inc.

SYNTHEON ACCEL-E® Steel Thermal Efficient Panel wall system combines framing & insulation, making the construction of energy-efficient buildings easier, faster.

Product Application

- Birmingham Airport, Birmingham, AL
- Cornell Elementary School, Pittsburgh, PA
- Mt Lebanon High School, Pittsburgh, PA

Performance Data

- Exceeds IECC requirements
- NFPA 285 compliant

www.syntheoninc.com
888.922.2353



SNAP 298

DOORS, WINDOWS

WOOD ACOUSTIC DOORS

$$$

Overly Door Company

Wood acoustic doors are lead-, asbestos- and formaldehyde-free and are now available with FSC Chain of Custody.

Product Application

- Brentwood Baptish Church, Brentwood, TN
- US Department of State, Washington, DC
- Pennsylvania State University, State College, PA

Performance Data

- FSC Chain of Custody
- 3/4-hr UL fire ratings; STC 41 thru 49

www.overly.com
800.979.7300



SNAP 299

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

PAVER LOCK-DOWN SYSTEM

WR

Wausau Tile Inc.

Paver Lok-Down™ Unit is specifically designed to resist wind uplift on paver roof decks. Consists of four components allowing for easy installation. Available in six standard color options.

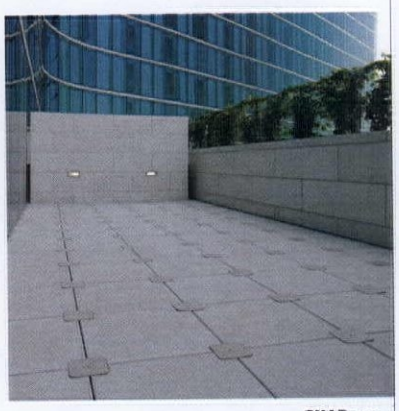
Product Application

- Omni Hotel, Dallas, TX
- Omni Hotel, Ft Worth, TX
- Coronado Hotel, St Pete's Beach, FL

Performance Data

- Performance tested at the International Hurricane Research Center, FIU, Miami, FL

www.wausautile.com
800.388.8728 | Paving Department



SNAP 300

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ADVANCED HEAT & UV PROTECTION TPO

$$$ | GREEN

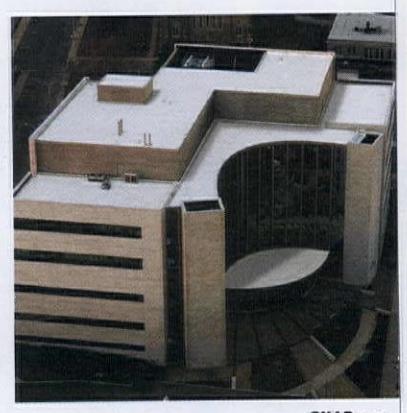
GAF

EverGuard® Extreme™ TPO is GAF's premium TPO product, formulated with proprietary stabilizers and UV absorbers that result in weathering performance far beyond current standards.

Performance Data

- Outperformed all other manufacturers' TPO products in the largest-ever independent TPO study, proving it to be the longest-lasting TPO available on the market

www.gaf.com
973.628.3000

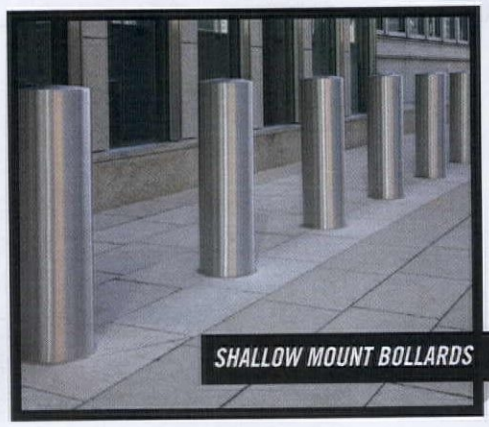


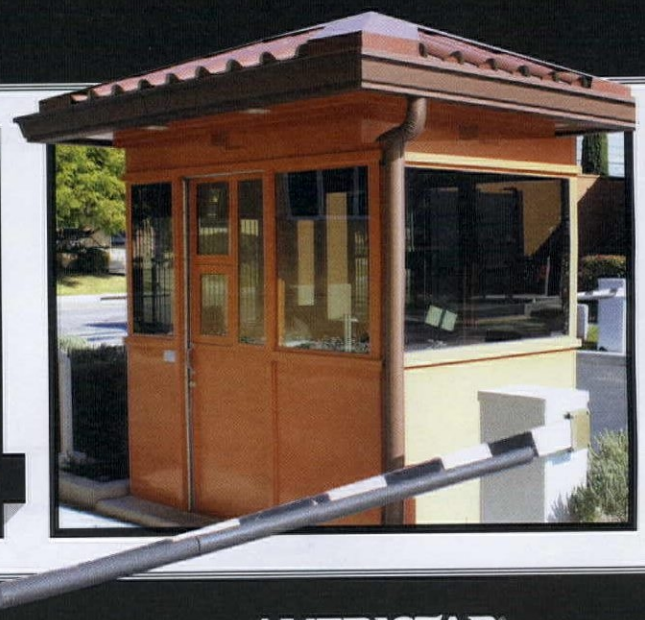
SNAP 301

CREATING A SAFER ENVIRONMENT

begins by securing the perimeter







FENCE | GATES | BARRIERS | BOOTHS

AMERISTARFENCE.COM | 800-321-8724

ASSA ABLOY, the global leader in door opening solutions

AMERISTAR
ASSA ABLOY

SNAP #114

Microperf Acousticore 519 & 525 Acoustical Panels

"Innovation Blends Seamless Aesthetics with Superior Performance"



MICROPERF ACOUSTICORE

Microperf Acousticore 519 & 525 wall & ceiling panels are unlike any other panel. Their unmatched performance, discrete aesthetics and structural integrity introduce an entirely new class of sound absorbent panels. This allows for a truly seamless integration of acoustic materials into all types of projects.

Product Features:

- Exceptional acoustic performance
- Uncompromised aesthetics
- Lightweight
- Impact-resistant and rigid
- Low reactivity to seasonal changes in temperature and humidity
- Can be hung like traditional wall panels using z-clips

Product Specifications:

Maximum Size: 1549 mm x 3683 mm (61" x 145")

Thickness: • **519:** 19 mm (3/4")
• **525:** 25 mm (1")

Weight: • **519:** 5.86 kg/m² (1.2 lbs./sq. ft.)
• **525:** 7.03 kg m² (1.3 lbs./sq. ft.)

Core: Sintered Resin-reinforced Glass Wool Soundply™

Face Options: • Wood Veneer • Vinyl
• High Pressure Laminate • Paint

Perforation: • Surface Diameter: 0.5mm
• Passage Diameter: 0.5mm • Passage Depth: 1.7mm
• Pattern: Offset

Fire Rating: Class A (ASTM-E84)

Leed Credits:

EA 1 Optimized Energy Performance

MR 4.1 & 4.2 Recycled Content Credit -
Core 57% pre-consumer, 0% post-consumer

MR 7 Certified Wood - contact sales staff

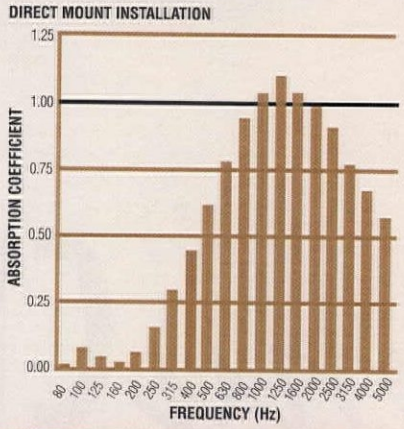
EQ 4.4 Composite Wood (no added urea formaldehyde)

EQ 7 & 7.1 Thermal Comfort

EQ 9 Enhanced Acoustical Performance

NRC Values Microperf 519

DIRECT MOUNT INSTALLATION

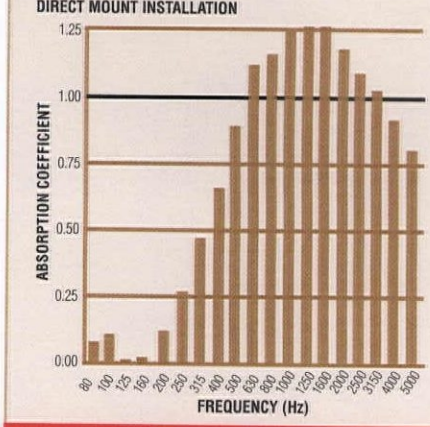


NRC RATING .70

PATENTS PENDING

NRC Values Microperf 525

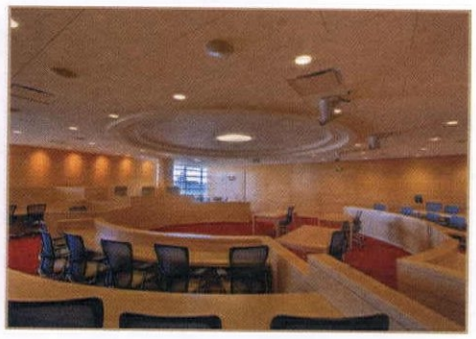
DIRECT MOUNT INSTALLATION



NRC RATING .90

PATENTS PENDING





STOP NOISE™ **ACOUSTICAL**|SURFACES, INC.

CELEBRATING 35 YEARS – SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION SPECIALISTS!

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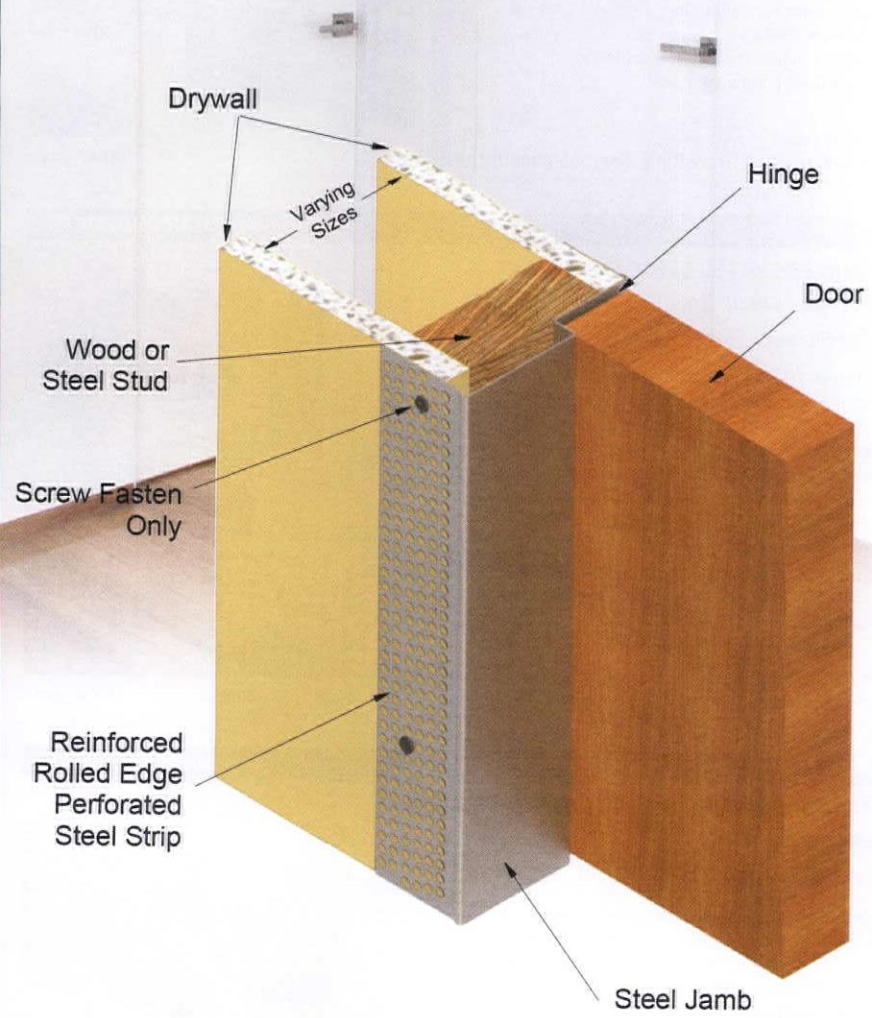
CLEAN LINES! ... The Flush Finish Door Jamb System

Trimless door frames... Make a statement, clean lines, flush finish... Give your project a clean cut edge!

EZYJamb

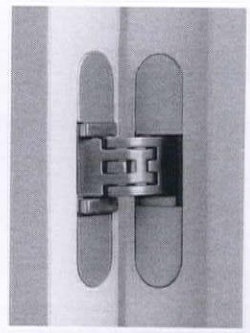
EZYJamb Single Rabbet - SRC

EZYJamb is a unique frameless jamb system that wraps the drywall during framing and when mudded and painted, blends seamlessly with the wall.
The **EZYJamb 18 Gauge Single Rabbet SRC Trimless door frame** is simple to install, and it requires no special maintenance.
The system is complemented by a range of hardware to suit different applications.
The completed jamb is flush finished and can be painted in with the whole wall area to fully conceal any fixing, achieving simple clean lines around the door face. The incorporation of reinforced edges overcomes the continual damage door jambs are subjected to by normal everyday use.



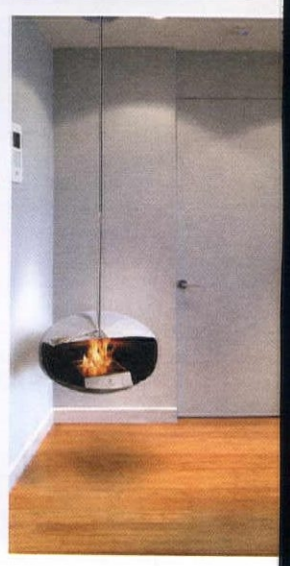


















ROCyork

EZYJamb is complemented by a range of Concealed, Standard and Mortised hinges from Rocyork.

ANOTHER PRODUCT FROM:

EZCONCEPT

Global Architectural Solutions

www.ezyjamb.com

PH: 800.675.8023

SNAP 60

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	85-86
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Interior Finishes, Furnishings	Pgs.	94
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Roofing, Siding, Thermal & Moisture Protection	Pgs.	106-110
SPECIALTY PRODUCTS	PGS.	114-118

SPECIALTY PRODUCTS

ENHANCED SOFT-CLOSE SLIDE

$$ | NEW

Accuride International

The enhanced 3832EC provides flawless movement, reliable performance and features to speed installation. The Easy-Close action helps prevent slamming.

Product Application
- School and laboratory casework
- Medical or commercial casework
- Residential cabinetry or casework

Performance Data
- 100-lb load capacity
- Lengths 14 in. to 28 in.; zinc or black finish



www.accuride.com
562.903.0200 | Claudia Tuttle

SNAP 302

SPECIALTY PRODUCTS

VERTICAL FINS

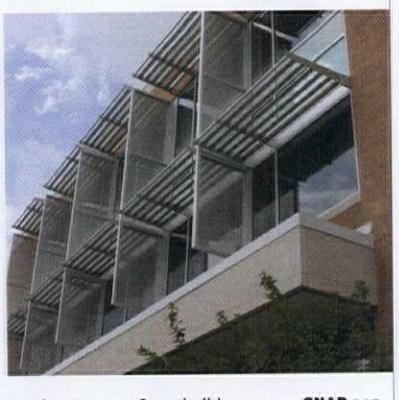
$$ | GREEN

Architectural Grilles & Sunshades, Inc.

AGS, Inc. provides many different designs of vertical aluminum fins that include single airfoils, perforated aluminum and solid panel sunshades.

Product Application
- Lincoln Lancaster County HD, Lincoln, NE
- Northeastern Illinois University, Chicago, IL
- UCCS Lane Center, Colorado Springs, CO

Performance Data
- Maximize reduced exposure from sun on east & west side of the building
- Contributes towards LEED points



www.agsshade.com
708.479.9458 | Zach Grunert

Booth: 2815 Greenbuild

SNAP 303

SPECIALTY PRODUCTS

240 SQ. FT. GUARD SHELTER FOR TOP SECRET PLACES

$$$

B.I.G. Enterprises, Inc.

Designed to meet stringent safety / security regulations, maintains an architecturally welcoming aspect. Factory-built, shipped in one piece; added granite panels, custom roof and overhang on-site.

Product Application
- Military
- High security / highly sensitive locations
- Government installations

Performance Data
- Bullet and blast resistance available
- CBRN protection available



bigbooth.com
626.448.1449 | Dave King dking@bigbooth.com

SNAP 304

SPECIALTY PRODUCTS

BIRD-PROOF YOUR BUILDING

$ | GREEN

Bird Barrier America, Inc.

The Eagle Eye system incorporates an optical scare device that rotates and reflects sunlight as well as Flash Flags, that flutter in the breeze and reflect light. The reflected light disorients birds.

Product Application
- New Flash Flags are wind-powered
- 12v and wind-powered Eagle Eye models
- 12v models can be powered by solar panel

Performance Data
- Reflected light spectrum disorients birds and causes them to deviate in flight and go to another location



www.birdbarrier.com
800.503.5444 | customercare@birdbarrier.com

SNAP 305

SPECIALTY PRODUCTS

STAINLESS STEEL CABLE RAILING

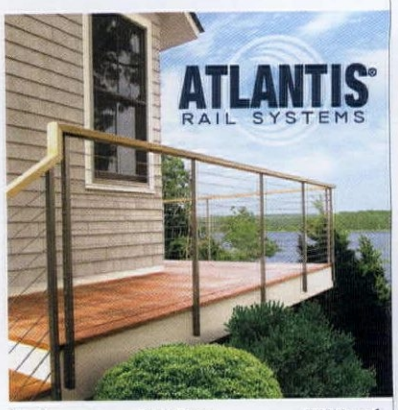
WR | NEW | GREEN

Atlantis Rail Systems

Stainless steel cable railing systems for unobstructed indoor or outdoor, commercial or residential designs and pre-engineered for quick and easy installations.

Product Application
- Federal Jacks Restaurant & Brew Pub, Kennebunk, ME
- Gumbo Limbo Nature Center, Boca Raton, FL
- The Bluff Top Trail, Dana Point, CA

Performance Data
- Low maintenance, grade 316L stainless steel
- Variety of modular components for every design
- Commercial or residential; indoors or outdoors



www.atlantisrail.com
800.541.6829 | info@atlantisrail.com

Booth: 2520 DeckExpo

SNAP 306

SPECIALTY PRODUCTS

PRECAST CONCRETE STEP-TREADS

$$

Camp Logan Cement Works

Their steps are used in all types of multihousing, high-rises, hotels, offices and parking garages.

Product Application
- Yankee Stadium, New York, NY
- The Royalton at River Oaks, Houston, TX
- Triborough Bridge & Tunnel, Brooklyn, NY

Performance Data
- Steel closed riser attachments with a polyester powder-coating anti-rust surface



www.camplogancement.com
800.445.9062 | Matt Huseman

SNAP 307

SPECIALTY PRODUCTS

INTRODUCING "EXPRESS YOURSELF" COLORS

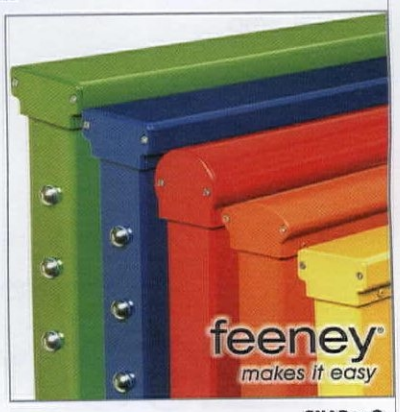
WR | GREEN | NEW

Feeney, Inc. (DesignRail®)

Explore five bold new colors and endless possibilities with DesignRail® aluminum railing systems. Customizable, ultra-durable and easy to install and maintain.

Product Application
- Residential, commercial, institutional projects
- Interior and exterior settings
- LEED projects, recycled content eligibility

Performance Data
- Finishes meet rigorous AAMA-2604 coating specs
- Pre-engineered systems with commercial-grade 6000-series aluminum extrusions



www.feeney6.com
800.888.2418 | Trang Nguyen-Soriano

SNAP 308

OUR **INNOVATION.** YOUR **INSPIRATION.**



Y REVEAL



XY REVEAL





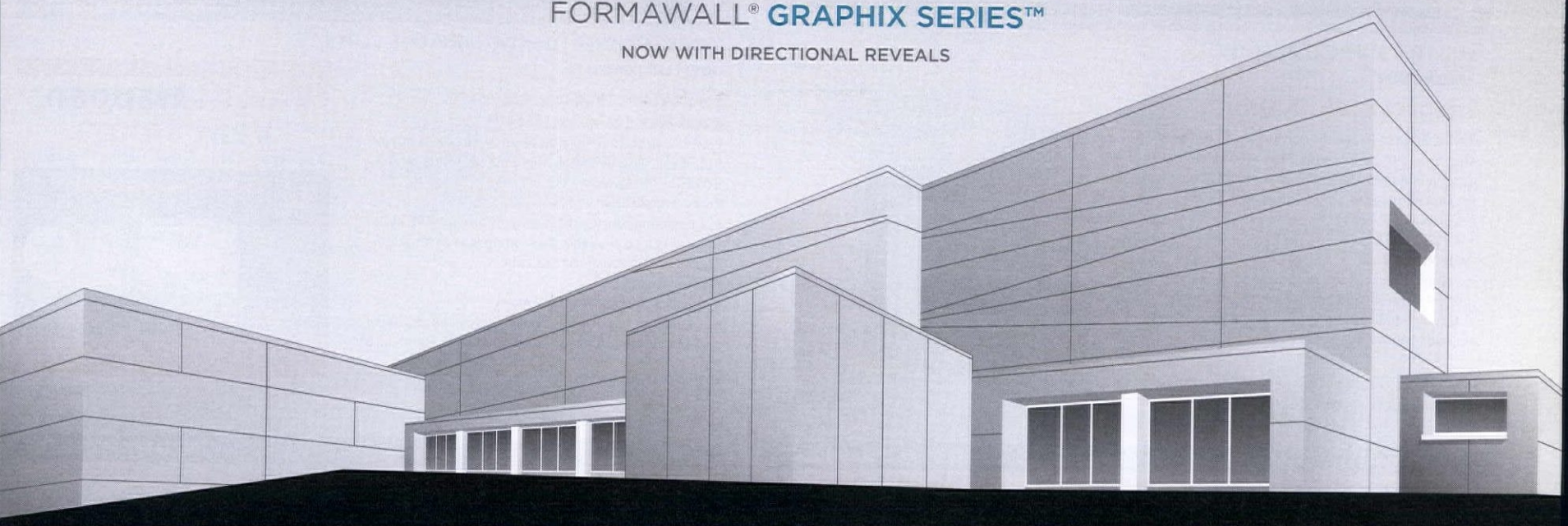
X REVEAL



SLOPED REVEAL

FORMAWALL® **GRAPHIX SERIES™**

NOW WITH DIRECTIONAL REVEALS



CENTRIA's Formawall Graphix Series is now improved with Directional Reveals. The improved design allows a single panel to be divided not only vertically, but also horizontally or even diagonally. Truly, Formawall Graphix Series is 'only limited by where you draw the line.'

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CENTRIAperformance.com/graphix

To learn more call 1-800-250-8675

CENTRIA | REIMAGINE METAL

SNAP 7

SPECIALTY PRODUCTS

ACCESS FLOORING SYSTEM

Haworth

Haworth Raised Access Floors are the foundation for spaces that adapt to workplace needs. TecCrete Raised Access Floors are a durable, dependable and architectural solution for a variety of spaces.

Product Application
- Offices – new construction & renovation
- Education & libraries
- Data centers
- Casinos

Performance Data
- Longest warranty in the industry
- Concentrated loads from 1,250 - 2,500 lb



www.haworth.com/home/floors
616.393.3000 | laura.stadler@haworth.com

SNAP 309

SPECIALTY PRODUCTS

DECORATIVE GRILLES

$$ | GREEN | NEW

OGi Architectural Metal Solutions – an Ohio Gratings Company

DG Products are made from fixed aluminum blades and are ideal for applications that require visual screening, enhanced security or architectural accents.

Performance Data
- Manufactured using 6000 series aluminum alloy
- Lightweight, economical and weather-resistant construction
- Made in the USA



www.ohiogratings.com
800.321.9800 | Jason Richter

SNAP 310

SPECIALTY PRODUCTS

INDOOR AIR QUALITY GYPSUM BOARD LINE EXPANDED

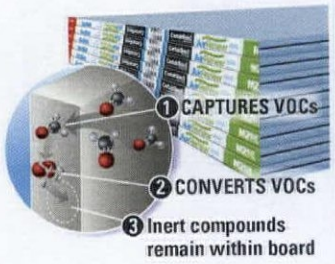
WR | GREEN | NEW

CertainTeed Gypsum

AirRenew® Extreme Abuse and Extreme Impact remove volatile organic compounds (VOCs) circulating indoors, contributing to a healthy indoor air quality.

Product Application
- Ames Montessori School, Marrero, LA
- Bryant Elementary, Bryant, AR
- UNCG Quad renovations, Greensboro, NC

Performance Data
- Superior resistance to hard impacts, penetrations; high performance against surface abrasion, indentation; exceptional durability, increased sustainability



www.certainteed.com
800.233.8990 | Amy Lee

Booth: 4037 AIA Expo

SNAP 311

SPECIALTY PRODUCTS

CLEAR ROLLING SECURITY SHUTTERS

QMI Security Solutions

The new LX6 clear polycarbonate slat shutter is clear protection that still rolls into a small box housing—motorized or manual.

Product Application
- Outdoor restaurants for wind & security
- Storefront protection for high-end retailers
- Room divider partitions for sound & security

Performance Data
- Manual spring assist operation up to 100 sq ft
- Motorized operation up to 280 sq ft



www.qmiusa.com
800.446.2500 | Tom Miller

SNAP 312

SPECIALTY PRODUCTS

COUNTER SUPPORT BRACKET

GREEN | NEW

Rangine Corporation/Rakks

Rakks Eclipse Brackets can support counters or shelves up to 18 in. deep. This attractive low-profile design is easy to install with no visible hardware.

Product Application
- Commercial
- Residential

Performance Data
- Eclipse Brackets can support loads up to 300 lb per pair sold in clear and black anodized finishes
- Machined aluminum ends provide a smooth and near seamless termination



www.rakks.com
800.826.6006 | David Greenberg

SNAP 313

SPECIALTY PRODUCTS

ICC-ES CERTIFIED FOUNDATION FLOOD VENTS

NEW | WR | GREEN

Smart Vent® Products, Inc.
Flood Risk Evaluator (FRE)™

Visit the Architect section of our website to download AutoDesk® Revit® BIM files and CAD files on the SWEETS™ network.

Product Application
- A complimentary project evaluation from FRE by request is also available by sending in your project details to EC@yourfloodrisk.com.

Performance Data
- Dual Function & Insulated Models
- Models for residential and commercial applications
- Made in the USA from Marine Grade 316 Stainless Steel



www.smartvent.com
877.441.8368 | info@smartvent.com

SNAP 314

SPECIALTY PRODUCTS

STADIUMS, GRANDSTANDS, BLEACHERS

WR

Sturdisteel

Sturdisteel offers a wide array of finish options such as powder coating on all custom seating systems. Powder coated finishes are resistant to chipping, scratching, fading and wear.

Product Application
- I-Beam Grandstands
- Leg Truss Grandstands
- Angle Frame Bleachers

Performance Data
- Backrest, vertical risers
- Long lasting and color durable
- Unlimited colors



www.sturdisteel.com
1.800.433.3116

SNAP 315

SPECIALTY PRODUCTS

STADIUM SEATING

WR | NEW

Sturdisteel

Cardinal 3000 stadium chairs are an economical choice for all sporting venues requiring reserved or individual seating sections.

Product Application
- Football, soccer or lacrosse stadiums
- Baseball or softball stadiums
- Gymnasiums, natatoriums or arenas

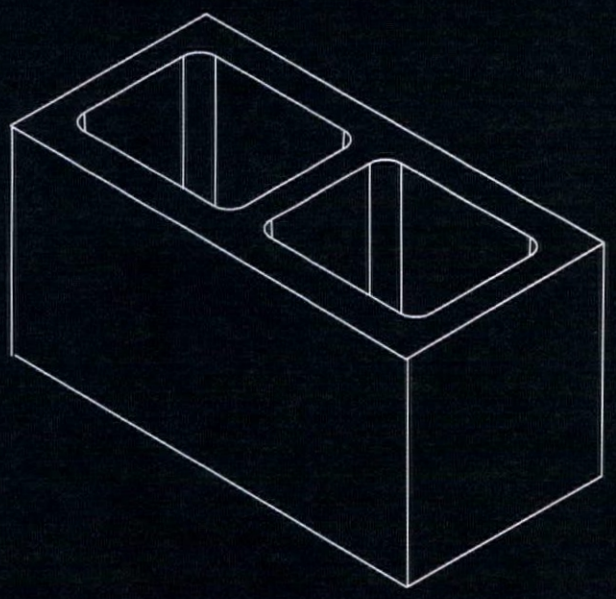
Performance Data
- Self-rising, gravity-tip and maintenance-free
- 13 standard colors – custom colors available
- 5 sizes and 3 frame finishes

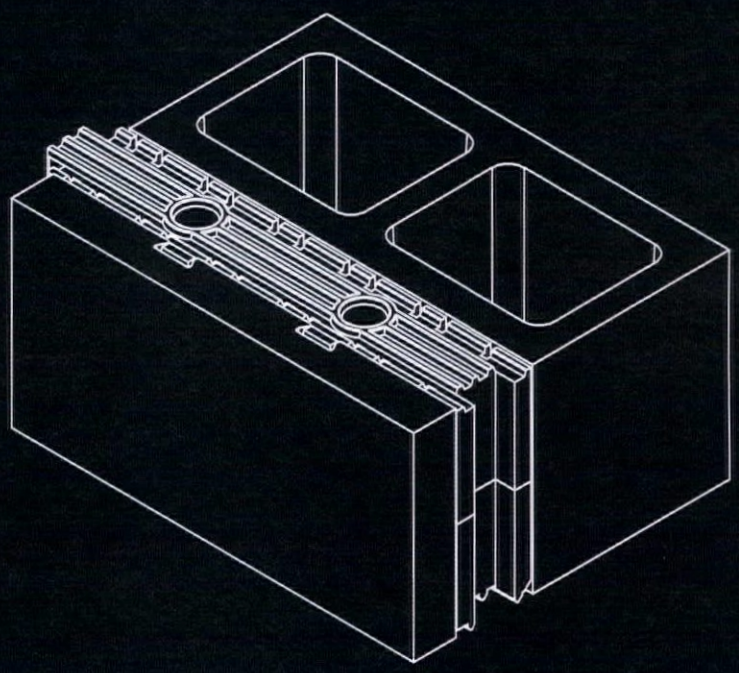


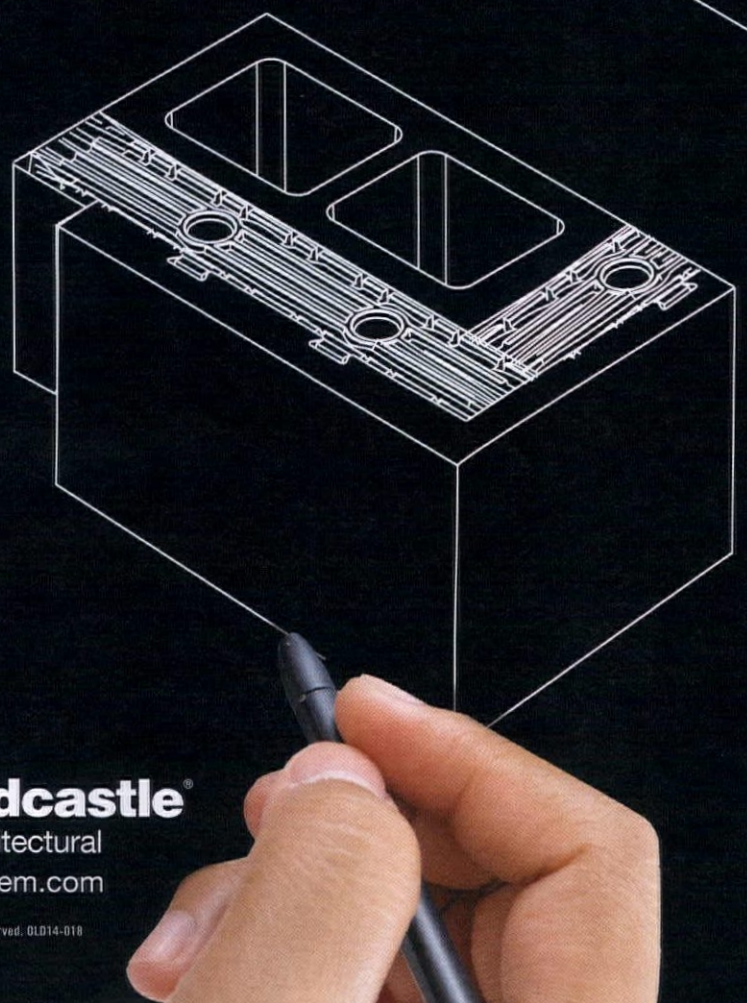
www.sturdisteel.com
800.433.3116 | info@sturdisteel.com

SNAP 100

EVOLUTION







100% Thermally Broken

SNAP 44

InsulTech™

The revolution in architectural block is here with InsulTech ICMU, a complete thermally broken insulated masonry system including a full complement of masonry units.

Oldcastle® Architectural

insultechsystem.com

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SPECIALTY PRODUCTS

ANTI-SLIP STAIR TREADS & NOSINGS

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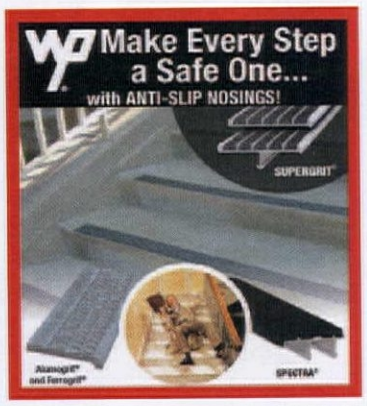
Wooster Products, Inc.

Anti-Slip Safety Stair and Walkway Products for new construction and renovation. Brand names include Supergrit, Spectra, Alumogrit, Stairmaster and NITEGLOW.

Product Application
- Commercial and residential buildings
- Transit systems
- Stadiums and ballparks

Performance Data
- Indoor and outdoor use
- ADA, New York MEA, IBC and IFC compliant
- Available in a variety of profiles and colors

www.wooster-products.com
800.321.4936



SNAP 101

SPECIALTY PRODUCTS

SUSPENDED CEILING GRID

$$

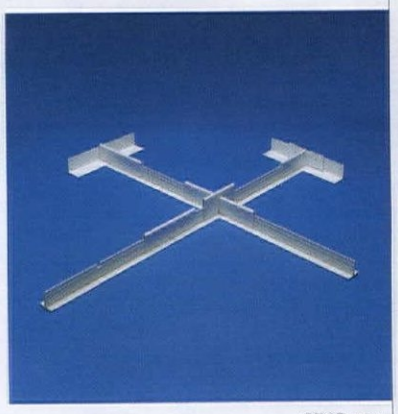
Keel Manufacturing

KEELGRID®: Corrosion-resistant non-magnetic fiberglass and plastic grid capable of seismic zones A to C.

Product Application
- Food processing
- Laboratories
- Clean rooms

Performance Data
- ICC Report #1722
- Class 1/A
- Corrosion and chemical resistant

www.keelmfg.com
800.765.5335 | Don Washecheck



SNAP 102

SPECIALTY PRODUCTS

DURABLE PROTECTION

Safety Technology International, Inc. (STI)

9-gauge steel wire guard helps protect a wide variety of devices against theft and vandalism.

Product Application
- Protects CCTV cameras and sensitive equipment
- Multi-use protective cover

Performance Data
- 9-gauge coated steel wire construction
- Measures 12 x 12 x 12 in.

www.sti-usa.com/sw18
800.888.4784 | Jeny Weil, Inside Sales Mgr



SNAP 103

SPECIALTY PRODUCTS

EXTRUDED ALUMINUM VENTS

$ | GREEN

Sunvent Industries div. of Sylro Sales Corp.

FL vents allow simple installation in existing walls where a fine finish is a requisite.
EX vents are the answer where a superior heavy-duty vent is required.

Product Application
- Douglas County High School, Douglasville, GA
- Bridgeside Place, Fort Lauderdale, FL
- University View, College Park, MD

Performance Data
- Heavy-duty extruded aluminum
- Custom sizes readily available with quick delivery

www.sunventindustries.com
800.325.4115 | info@sunventindustries.com



SNAP 104

SPECIALTY PRODUCTS

ACCESS SOLUTIONS

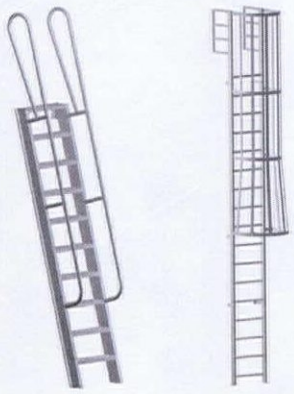
UPNOVR, Inc.

UPNOVR fabricates fixed-access ladders designed to meet a variety of applications including interior/exterior roof, mezzanine and crossover access.

Product Application
- 200 series for climbs under 20 ft
- 300 (safety cage) for climbs over 20 ft
- 500 series for ship's ladders

Performance Data
- Lightweight high-strength aluminum construction
- Accessories: security doors, safety up posts, platforms

www.upnovr.com
603.625.8639 | Shawn Gosselin



SNAP 105

SPECIALTY PRODUCTS

SUN & WEATHER PROTECTION

WR | GREEN

Victory Awning

Unique canvas as well as metal structures providing sun and weather protection for traditional or cutting-edge architecture.

Product Application
- School districts
- Theme/water parks
- Commercial/building management

Performance Data
- Standard and custom design applications
- Cost-effective sun and weather protection

www.victoryawning.net
817.759.1600 | Scott Luttrell



SNAP 106

SPECIALTY PRODUCTS

UNBREAKABLE HOOKS

$ | NEW

EMCO Specialty Products Inc.

Add some color and durability to your project. This unbreakable nylon hook is an affordable and attractive way to make your classroom, office or hospitality project smarter, safer and more colorful.

Performance Data
- The Hardy Hook will easily hold 32 lb with enough flex to ensure it never breaks
- Available in 11 colors

emcospi.com
913.281.4555 | info@emcospi.com



SNAP 107

SPECIALTY PRODUCTS

FOLDING STAIRWAY

$$ | NEW

Precision Ladders, LLC

Automatic Super Simplex Folding Stairway opens and unfolds at the press of a button. New patent-pending stair can be operated from above or below for ceiling heights up to 16 ft.

Product Application
- University of Memphis Clock Tower, Memphis, TN
- I-78 Toll Plaza, Blackwood, NJ
- Fort Saskatchewan Hospital, Edmonton, Alberta

Performance Data
- 500-lb load rating with actual shear of rivets tested to 1,175 lb; steel frame, extruded aluminum treads

www.precisionladders.com
800.225.7814 | Steve Fugate



SNAP 108



All day long, we are surrounded by noise. Noise is uncomfortable. Lasting exposure can even make you sick.

REHAU windows provide high levels of noise reduction to ensure that you can enjoy the quiet in your home. This not only improves quality of life, but also leads to higher overall comfort.

Shut it all out with REHAU window systems and transform your home into an oasis of peace and quiet.

Learn more at: **na.rehau.com/noise**

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DATES + EVENTS

NEW AND UPCOMING EXHIBITIONS

Archtober 2015

NEW YORK CITY

October 1–31, 2015

This monthlong event offers special tours, lectures, films, and exhibitions focusing on the importance of architecture and design in everyday life. The many participating organizations aim to highlight the role of design in New York City and build a lasting civic and international recognition of the richness of its built environment. For more information, visit *archtober.org*.

The New American Garden: The Landscape Architecture of Oehme, van Sweden

WASHINGTON, D.C.

October 17, 2015–May 1, 2016

During the 1980s and '90s, Wolfgang Oehme and James van Sweden revolutionized modern American landscape architecture. Rejecting the manicured lawns then emblematic of suburban neighborhoods and corporate campuses, the pair used ornamental grasses and perennials to create living tapestries that required little maintenance. This exhibition includes photographs of key projects designed by Oehme, van Sweden & Associates, along with related drawings and artifacts from the firm's practice. For more information, visit *nbm.org*.

ONGOING EXHIBITIONS

Shelter: Rethinking How We Live in Los Angeles

LOS ANGELES

Through November 6, 2015

Pioneers from Frank Lloyd Wright to Frank Gehry have taken advantage of Los Angeles's climate, diverse landscapes, openness to ideas, and steady influx of new residents to create homes that have defied imagination and convention. However, L.A. faces new challenges today, such as population saturation, stratospheric costs, crushing congestion, and unprecedented environmental crises. For *Shelter*, the curators encouraged six local design practices to propose creative new housing models for a changing city. The teams include Bureau Spectacular, LA-Más, Lorcan O'Herlihy Architects, MAD Architects, PAR, and wHY Architecture. For more information, visit *aplusd.org*.

The Barbican Exhibition: Building a Landmark

LONDON

Through November 29, 2015

This collection of rarely seen photographs documents the transformation of the Barbican in London, Europe's largest performing arts venue, from World War II bomb site to Brutalist landmark. The construction images date from the mid-1950s to 1982. For more information, visit *barbican.org.uk*.

Collaboratory

NEW YORK CITY

Through December 21, 2015

Visitors to Collaboratory, USAI Lighting's 3,200-square-foot pop-up space in SoHo, will find examples of the latest developments in LED technology. Interactive displays will allow guests to explore how interior lighting impacts human productivity and affects well-being. Realized with help from Francis Murphy/FPM Design and marketing firm VP+C Partners, Collaboratory is open to the public Monday afternoons by appointment. The space also hosts LED education sessions, tours, workshops, and meetings. For more information, visit *usailighting.com/usai-lighting-collaboratory*.

David Adjaye: Architecture for Social Change

CHICAGO

Through January 3, 2016

Having constructed more than 50 projects across the world, David Adjaye has emerged as a major figure in architecture and design. This first-ever retrospective of the African-born architect's work, held at the Art Institute of Chicago, features drawings, sketches, models, and mock-ups of furniture, housing, and public buildings. Included is a dynamic installation—conceived by Adjaye's eponymous studio—that immerses viewers in his distinct approach and visual language. For more information, visit *artic.edu*.

David Adjaye Selects

NEW YORK CITY

Through February 14, 2016

For the 12th installment of Cooper Hewitt's ongoing Selects series, the London-based architect chose 14 of the museum's West and Central African textiles. He then created a dialogue between them and the patterns that inspire his own work. For more information, visit *cooperhewitt.org*.

Frank Gehry

LOS ANGELES

Through March 20, 2016

The buildings of Frank Gehry have altered the relationship of architecture to the city both socially and aesthetically. His pioneering work in digital technologies also set in motion construction-industry practices employed today. The exhibition, at Los Angeles County Museum of Art, offers a comprehensive overview of the architect's extraordinary body of work. The show begins with the early 1960s, when the Toronto native established his firm in Los Angeles, and runs to the present. The 65 models illuminate the evolution of Gehry's thinking, and many of the 200 drawings have never been exhibited publicly. For more information, visit *lacma.org*.

HACLab Pittsburgh: Imagining the Modern

PITTSBURGH

Through May 2, 2016

In the 1950s and '60s, an ambitious program of urban revitalization transformed Pittsburgh. *HACLab Pittsburgh: Imagining the Modern* untangles the city's then-complicated relationship with urban planning and modern architecture. In this experimental presentation at Carnegie Museum of Art's Heinz Architectural Center, architects in residence over,under unearth layers of history and present a range of perspectives via archival materials, an in-gallery architecture studio, and a salon-style discussion space. For more information, visit *cmoa.org*.

LECTURES, CONFERENCES, AND SYMPOSIA

The Inaugural Chicago Architecture Biennial

CHICAGO

October 3, 2015–January 3, 2016

Through its constellation of exhibitions, programs, and full-scale installations, the first Chicago Architecture Biennial provides a platform for groundbreaking architectural projects and spatial experiments. The event invites the public to consider architecture in new and unexpected ways, as well as to take part in a global discussion about the future of the built environment both at home and abroad. For more information, visit *chicagoarchitecturebiennial.org*.

Architectural Record Women in Architecture Forum & Awards

NEW YORK CITY

October 6, 2015

Record's second annual awards program recognizes and promotes women's leadership and contributions to architecture and design. The morning symposium at the Time-Life Building is followed by a luncheon honoring this year's winners. For more information, visit *arwomeninarchitecture.com*.

Architectural Record Innovation Conference

NEW YORK CITY

October 7, 2015

To innovate, architects must expand the boundaries of the discipline, spurring creativity through design and technology. At this year's conference at the Time-Life Building, *Record* brings together practitioners who have generated imaginative solutions for the built environment. From firm principals to materials experts to engineers, the event's participants represent varied approaches to problem-solving in a rapidly changing world. For more information, visit *arinnovationconference.com*.

DesignPhiladelphia Festival 2015

PHILADELPHIA

October 8–16, 2015

This annual event showcases the work of 400-plus practicing architects and creative professionals. It also demonstrates Philadelphia's emergence as a 21st-century city shaped by design, technology, and collaborative business practices. More than 130 events will occur over the nine days, with participants representing universities, civic associations, retailers, manufacturers, and startups. For more information, visit *2015.designphiladelphia.org*.

Monterey Design Conference

MONTEREY, CALIFORNIA

October 16–18, 2015

Now in its fourth decade, the biennial Monterey Design Conference is organized by architects for architects. Sprinkled among the slate of international headliners are presentations from some of California's finest emerging talent. The event also features an array of continuing education options. For more information, visit *aiacc.org/mdc*.

World Architecture Festival

SINGAPORE

November 4–6, 2015

The largest international architectural event on the planet, the World Architecture Festival annually attracts more than 2,000 architects from 60 countries. This year, the WAF will include an awards competition judged live, over 50 hours of seminars and talks, and a products exhibition with suppliers and manufacturers from all around the globe. For more information, visit *worldarchitecturefestival.com*.

2015 Bi-City Biennale of Urbanism/Architecture

SHENZHEN, CHINA

December 4, 2015

Organized by the neighboring cities of Shenzhen and Hong Kong, this exhibition focuses on urbanism and urbanization. More than 75 exhibitors from six continents will explore how reimagining and repurposing existing spaces can improve city life. Aaron Betsky, Alfredo Brillembourg, Hubert Klumpner, and Doreen Heng Liu are curating this year's event. For more information, visit *en.szhkbiennale.org*.

COMPETITIONS

Unbuilt Visions

Submission deadline: October 15, 2015

This annual competition promotes critical debate about architecture and design by acknowledging excellence in unbuilt and conceptual projects. Sponsored by d3, a New York–based organization committed to promoting innovation in art, architecture, and design, the program is open to architects, landscape architects, designers, students, and other makers of the built environment. For more information, visit *d3space.org/unbuiltvisions*.

Tile of Spain Awards

Submission deadline: October 28, 2015

Organized by ASCER, the Spanish Ceramic Tile Manufacturers' Association, this annual competition promotes awareness of Spanish ceramic tiles among architects and interior designers. Entered projects must make significant use of Spanish ceramic floor and/or wall tiles in a building or project. For more information, visit *tileofspainusa.com*.

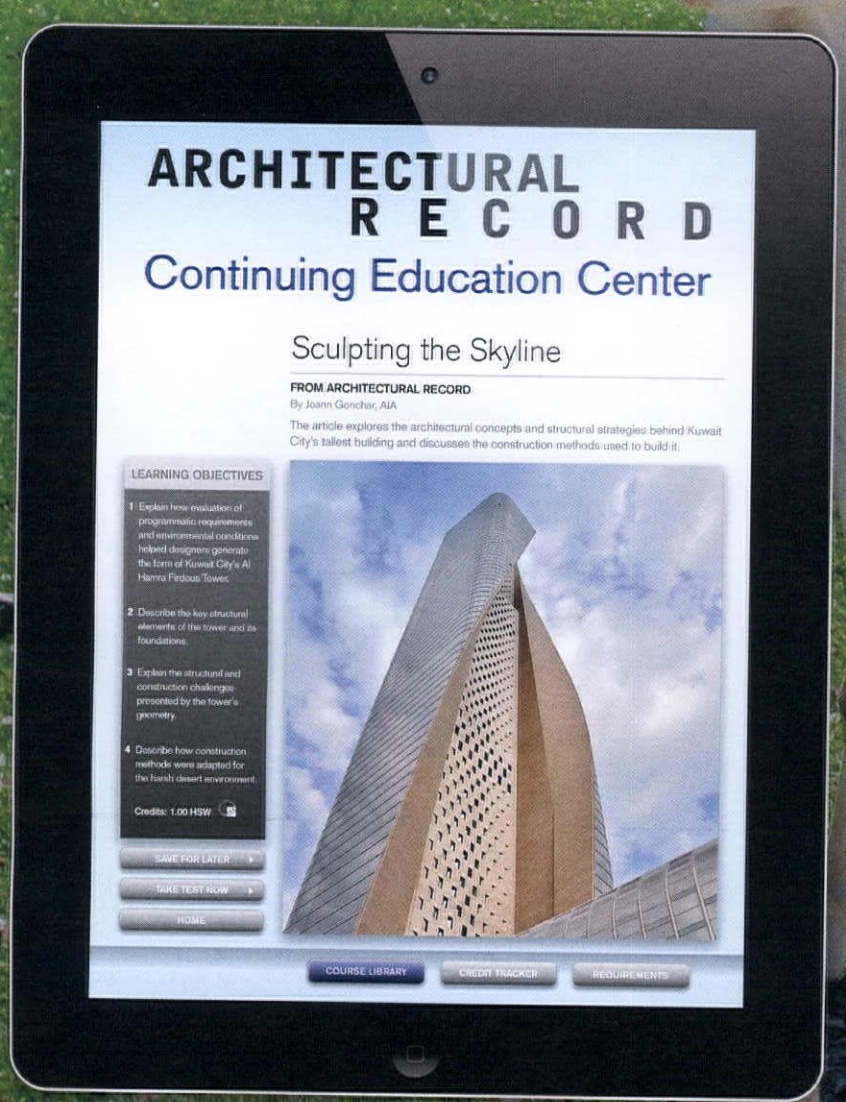
The Negro Building Remembrance Competition

Submission deadline: November 1, 2015 (though extended at press time; check website)

The Negro Building Remembrance Competition aims to bring Atlanta's Negro Building—a now-empty post-Emancipation landmark of the 1895 Cotton States and International Exposition, since lost to history—into public consciousness. The competition invites architects, landscape architects, artists, playwrights, poets, musicians, and writers from all disciplines to propose bold and provocative ways to honor the building, an important site in the long, hard (and still ongoing) struggle of African Americans to win civil rights in the United States. For more information, visit *negrobuildingcompetition.com*.

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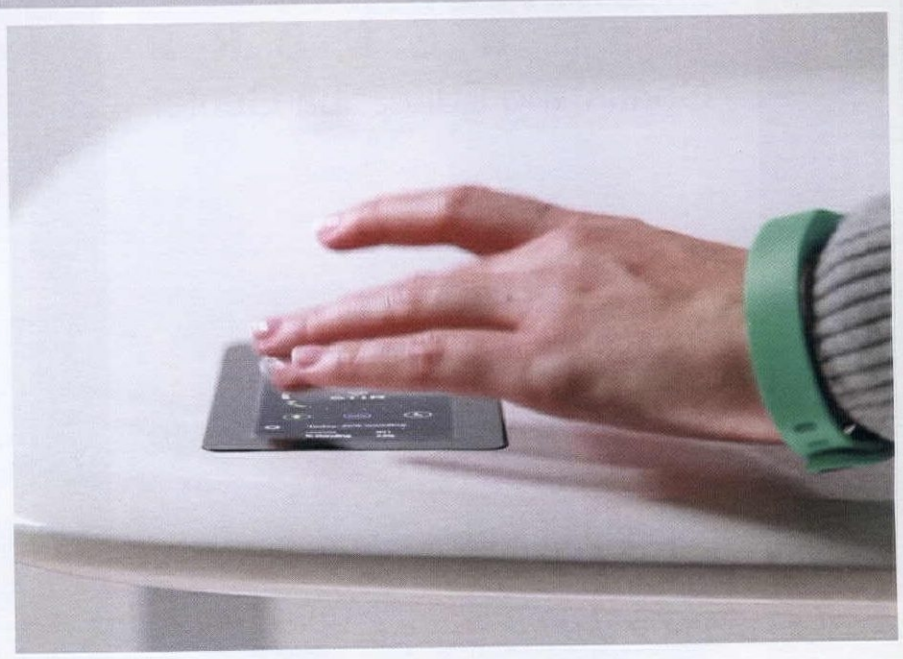


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ALL RISE A built-in touchscreen powers Stir's Kinetic M1 desk (above and inset), customizing the piece's height and tallying user health information such as amount of movement and calories burned. Allseating's MultiNester chair (below) helps reduce leg stress.



NeoCon 2015

Furniture flexible in use and embedded with technology dominated the annual commercial interiors trade show.



ATTRACTING OVER 50,000 global attendees and 700 exhibitors, the 47th edition of NeoCon, held June 15 to 17 at Chicago's Merchandise Mart, was the largest to date. It featured one million square feet of exhibition space, two additional floors of product, and six new permanent showrooms.

Smart technologies—especially ones that nudged employees to adopt healthier work habits—were everywhere. A new concept version of **Steelcase**'s Gesture chair features a motion sensor in its cushion that monitors a worker's posture and stress levels, and then relays the information back to him via an iPad app. The company's updated Divisio desktop privacy screens also incorporate sensors and LEDs that prompt users to stand up or take breaks at regular intervals.

For those who like to think on their feet, **Stir**'s Kinetic M1 height-adjustable desk utilizes cloud-based monitoring and a small, integral touchscreen to alert users to raise the work surface from sitting to one of three standing positions. The desk also can be synced to third-party applications such as Fitbit to chart progress.

Agile task furniture continued to be popular in all contract segments, with the SixE Learn chair by **PearsonLloyd for Howe** most noteworthy. Designed to support learning styles ranging from solitary studying to ad hoc group discussions, the

unit features an integrated tablet stand, swivel base, and built-in storage area for a laptop or papers. The prototype Multi-Nester by **Allseating** reimagines the folding chair, boasting a flip-down seat that not only reduces pressure on the legs, but also saves several inches of space when nested.

Other companies offered more soup-to-nuts takes on the trend. **Tuohy**'s Work-Styles casegoods system comprises a customizable mix of integrated and free-standing seating elements, desks, tables, wall panels, and storage modules; material options include wood, Corian, and glass. The Wheels collection by **Keilhauer** features movable seating—as well as a circular table with a power cable that addresses one of the key concerns in flexible working environments: where to plug in the requisite technology.

With open-plan offices still in vogue, solutions that create microenvironments within them continue to be in demand. Products like **Steelcase**'s cocoon-like Brody WorkLounge promise an oasis within







A QUIET MOMENT Privacy solutions for open-plan offices flourished at the show. Steelcase's Brody WorkLounge (above) is a self-sufficient space for one; Koleksiyon's Cap (right) blocks out distractions; Keilhauer's Wheels bench (below) offers a place to recharge; and Knoll's Pop Up screens (left) create ad hoc meeting rooms.









HAVE IT YOUR WAY Create a custom workspace with Tuohy's WorkStyles (top and above), a mix-and-match collection of seating, desks, storage, occasional tables, and wall panels. The SixE Learn chair by PearsonLloyd for Howe (right) supports students in a multitude of scenarios—and it comes with a cup holder, too.

the flow, combining an ergonomic chair, adjustable work surface that holds technology at eye level, and in-seat outlet to power the user's devices. The Istanbul-based **Koleksiyon** offered Cap, a modular, hood-like desktop that provides a haven in which to focus. **Knoll**'s Pop Up—a flexible, rubberlike screen that users can shape atop or around a desk or table—also promotes privacy, although the company's Horsepower mobile bench and multidevice charging station lean more toward group use.

Adding context to the products was NeoCon's program of over 100 events. Multifaceted designer **Patricia Urquiola** delivered the keynote, speaking about the curiosity that drives her work and the path that led her to found her eponymous studio. The show closed with a talk by **Martin Lesjak** and **Anastasia Su** of **13&9**, the Austrian firm that is creating new product topologies by mixing fomats, technologies, and modes of fabrication. —*Alison Gough*

monumentality:

(mon-yuh-men-tahl-i-tee)

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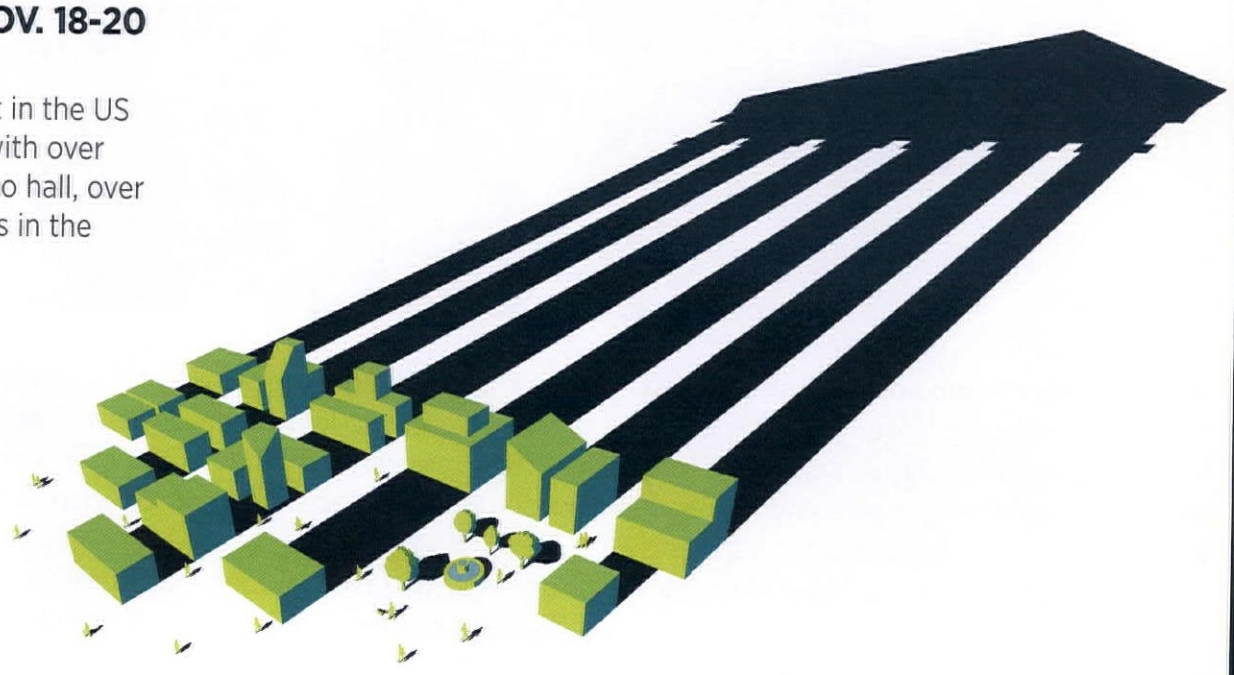
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PARTNERS IN DESIGN

BY LESLIE CALDWELL





DAVID ADJAYE

Born in Tanzania, the London-based architect interweaves modern design with traditional African art forms. His completed works include the Nobel Peace Center in Oslo and the Ideas Store on London's Chrisp Street.
adjaye.com



DOROTHY COSONAS

A fabric designer inspired by fine art and international fashion, the New York–based Cosonas has been creative director of KnollTextiles and KnollLuxe since 2005.
knoll.com/shop/knolltextiles

FOR ARCHITECT DAVID ADJAYE, developing a collection of fabrics for KnollTextiles allowed him to experience the creative process from a different perspective. "I've become increasingly interested in smaller-scale design because its lead time lets me test out new ideas with some immediacy. It's a great contrast to my architectural work, which unfolds across many years," says Adjaye. "With textiles I'm also thinking about an intimate emotional response. With architecture, it is much more about large-scale relationships between histories, cultures, and geographies."

The collection—composed of six upholsteries, two draperies, and a wallcovering—reflects Adjaye's affinity for African geography and nature. It also draws on his recent foray into curating West and Central African fabrics for an exhibit at the Cooper Hewitt Smithsonian Design Museum in New York.

"Working with David was an interesting process," says KnollTextiles creative director Dorothy Cosonas. "By taking him out of architecture and into textiles, we translated his point of view on geometric and organic systems through varied weave structures and construction techniques." (**SNAP #109**)

PHOTOGRAPHY: COURTESY OF KNOLLTEXTILES

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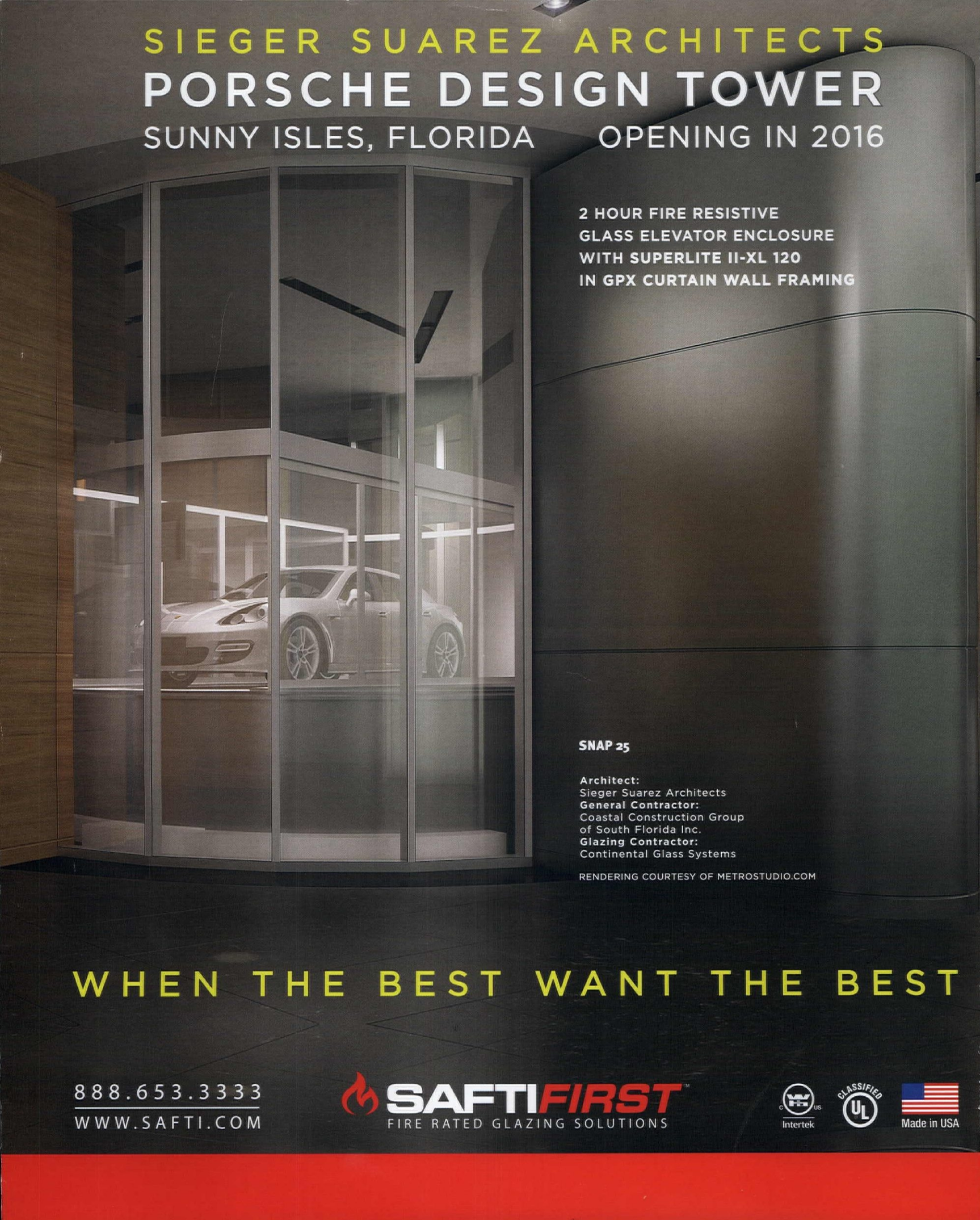
SNAP 6

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SIEGER SUAREZ ARCHITECTS

PORSCHE DESIGN TOWER

SUNNY ISLES, FLORIDA OPENING IN 2016



2 HOUR FIRE RESISTIVE GLASS ELEVATOR ENCLOSURE WITH SUPERLITE II-XL 120 IN GPX CURTAIN WALL FRAMING

SNAP 25

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General Contractor:
Coastal Construction Group of South Florida Inc.
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